

November 2008

Clean Energy Connections - Conference Program & Notebook

Loren Walker

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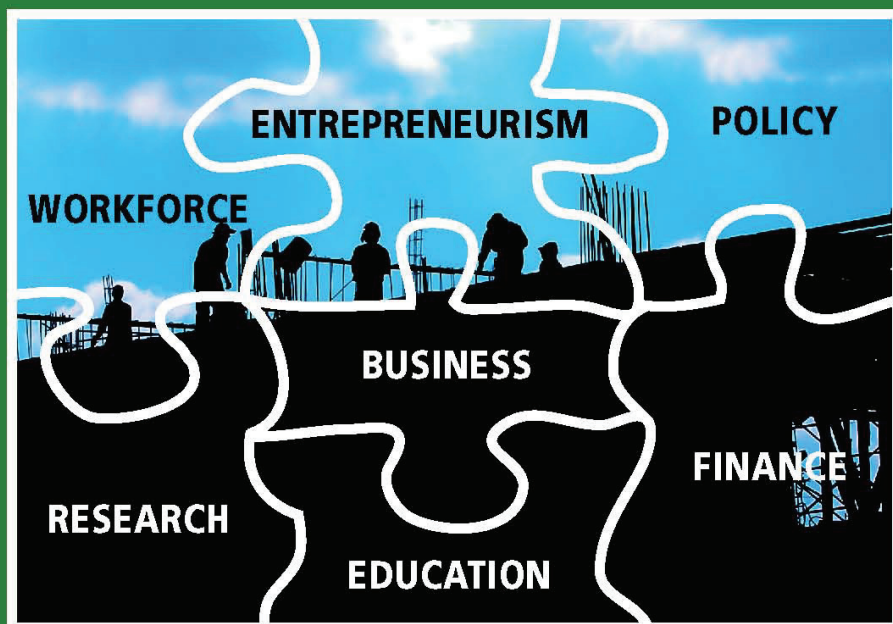
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CLEAN ENERGY CONNECTIONS

1ST ANNUAL CONFERENCE AND OPPORTUNITY FAIR

Pathways to Economic Growth and Good Careers
through Clean Energy



Get Plugged In

Saturday, November 22, 2008
MassMutual Center, Springfield

umass.edu/green



Clean Energy Connections is produced by the University of Massachusetts Amherst
Office of Research Liaison & Development



www.umass.edu/green

Dear Friend:

Welcome!

Thank you for joining us for the First Annual Clean Energy Connections Conference and Opportunity Fair. The interest in today's event has been phenomenal! And, with good reason...

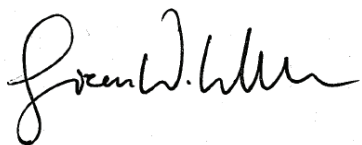
Clean energy can create local jobs, reduce pollution and stabilize energy costs. Even as the economy tightens, business and career opportunities in "green" industries are projected to grow. Here in New England, we are at the forefront of a nationwide movement for clean energy. Our communities, our colleges and universities, and our companies all stand to benefit from the rising tide of federal, state and private sector investment in energy efficiency and renewable power.

The University of Massachusetts Amherst has a long history of clean energy leadership. Today, many UMASS faculty and students are hard at work developing the foundational knowledge underlying next-generation clean energy technologies such as: off-shore wind power; low-cost, high-efficiency photovoltaic materials and fuel cells; cellulosic biofuels; "green" gasoline; and zero-energy homes and buildings. When UMASS alumni enter the Massachusetts workforce, as more than 70 percent of our graduates do, they will help fuel the Commonwealth's burgeoning clean energy economy.

It is increasingly clear that clean energy will play a key role in the national strategy for stabilizing, stimulating, restoring, and growing our economy. In his 2007 book, *Apollo's Fire: Igniting America's Clean Energy Economy*, our keynote speaker Bracken Hendricks writes, "A clean energy revolution represents the jobs of the future." Today's outstanding attendance is evidence that a vision for Massachusetts' clean energy future is coming rapidly into focus.

All the pieces of the clean energy puzzle are represented here today: researchers, entrepreneurs, educators, financiers, business operators, workers, and policy makers. We urge you to take advantage of this unique opportunity to connect with one another. And, *get plugged in* to the green economy.

Sincerely yours,



Loren W. Walker
Manager, Advanced Energy Research
Initiative
Associate Director, Research Liaison &
Development
University of Massachusetts
Amherst



Paul T. KostECKi, PhD
Vice Chancellor for Research and
Engagement
University of Massachusetts
Amherst



Marla S. Michel
Director, Research Liaison &
Development
University of Massachusetts
Amherst





Springfield, Massachusetts *Welcomes You!*

As the 54th Mayor of the City of Springfield, it is my honor and pleasure to welcome you to our fine city. While known around the world as the birthplace of basketball and Dr. Suess, Springfield is also renowned for being a leader in clean and green development, being named the 4th “Greenest City” by *Country Home Magazine* in 2007. Specifically, Springfield was cited for its splendid parks, the purity of its drinking water system, its regional recycling center, and organizations such as ReStore Home Improvement Center.

My administration is committed to growing the clean and green sectors in the city, and we welcome you to this important event and hope you will take the opportunity to realize all that Springfield has to offer.

Springfield is the cultural center of Western Massachusetts. Our world-class museums, the Springfield Symphony, City Stage and historic Armory rival attractions in cities twice our size. Our Basketball Hall of Fame is a one-of-a-kind, spherical museum that features legends of the game’s past, present and future. The spectacular Dr. Seuss National Memorial Sculpture Garden is a magical place that brings out the inner child in all who visit.

The heart and soul of the Springfield community is found in our 17 vibrant neighborhoods and diverse citizenry. A vast collection of Victorian mansions and impressive architecture has earned Springfield the title “City of Homes.”

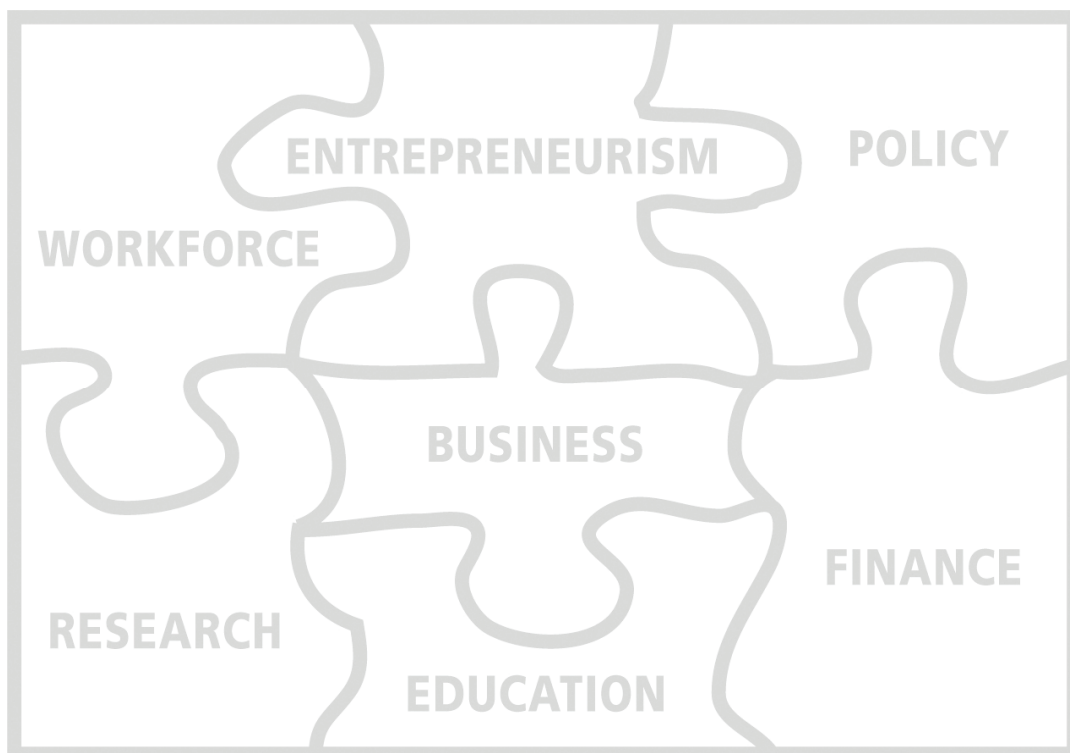
Springfield has a thriving business community. While small businesses find the city a great place for a startup, we are also the home to large, global businesses. MassMutual Financial Group is the largest company in Massachusetts and employs over 27,000 people worldwide. Companies like Smith & Wesson, Big Y Foods, Merriam-Webster, Performance Food Group and Peter Pan Bus Lines all call Springfield home as well as major healthcare providers such as Baystate Health. River’s Landing is a new riverfront complex that houses region’s only L.A. Fitness, Onyx restaurant, and a sports medicine complex.

Home to four higher education institutions, Springfield is a proud affiliate of the Knowledge Corridor, which has the second highest number of higher education institutions in all of New England. These are just a few things that make this city a great place to live, work, and visit. Please enjoy your time today both at the conference and here in the city of Springfield.

Mayor Domenic J. Sarno

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Plenary Room & Exhibit Hall		
8:30 AM	REGISTRATION & CONTINENTAL BREAKFAST	
9:20 AM	WELCOME Domenic Sarno, Mayor of Springfield Robert Holub, Chancellor, UMass Amherst Paul Kostecki, Vice Chancellor, UMass Amherst	
9:45 AM	KEYNOTE ADDRESS <u>"Clean Energy as an Engine for Economic Transformation in the U.S."</u> Bracken Hendricks	
10:20 AM	Break	Break
10:30 AM	Exhibitor SET UP	Future Energy – Economic Recovery and Employment Opportunities Robert Pollin Kevin Doyle Alex Risley-Schroeder (Moderator)
11:50 AM	Exhibitor SET UP	Good Jobs - Green Jobs Alex Risley-Schroeder Chris Cato Mike Kocsmiersky Steven Roberto Patricia Crosby (Moderator)
1:05 PM	NETWORKING LUNCHEON Opportunity Fair OPENS	
1:45 PM	OPPORTUNITY FAIR OPEN	The Wellspring of Innovation - I 1:45 - Nick d'Arbeloff 1:53 - Patrick Quinlan 2:01 - John Laux 2:09 - Kirsten Bonanza 2:17 - Daniel Ross 2:25 - Dhandapani "DV" Venkataraman 2:33 - Michael Garjian
2:45 PM	Powershift: Massachusetts' New Clean Energy Landscape Representative Daniel Bosley (D-North Adams) Senator Benjamin Downing (D-Pittsfield) Commissioner Phil Giudice (DOER)	The Wellspring of Innovation II 1:50 - John Fabel 1:58 - Alan Page 2:06 - Simi Hoque 2:14 - Patricia Moss 2:22 - Sean Jeffords 2:30 - Catherine Miller 2:38 - Eduardo Suárez
4:00 PM	OPPORTUNITY FAIR OPEN	
4:45 PM	ADJOURN	ADJOURN

Clean Energy Connections
The 1st Annual Conference and Opportunity Fair

9:20 am - PLENARY ROOM

WELCOME

The Honorable Domenic Sarno, Mayor of Springfield

Robert Holub, Chancellor, University of Massachusetts Amherst

Paul Kostecki, Vice Chancellor for Research and Engagement, University of Massachusetts Amherst

9:45 am - PLENARY ROOM

Keynote Speaker: Bracken Hendricks, Senior Fellow with the Center for American Progress , co-author of "Apollo's Fire: Igniting America's Clean Energy Economy " (Island Press, 2007) , and co-founder of the Apollo Alliance, a national movement for clean energy and good jobs.

10:30 am - BALLROOM A

Future Energy Careers - Are we on the verge of a "Green Economic Recovery" in Massachusetts? Two experts will share their analyses of the potential employment effects from state and federal clean energy investments. The panel will tackle some important questions: What will this industry look like in the future? What does it mean for our economy and our workforce? What's hot and what's hype?

- **Robert Pollin**, Professor of Economics, University of Massachusetts Amherst Political Economy Research Institute. Author most recently of "Green Recovery: A Program to Create Good Jobs and Start Building a Low-Carbon Economy."
- **Kevin Doyle**, Principal, GreenEconomy
- *Moderator: Alex Risley-Schroeder*, Green Careers Coach, Franklin/Hampshire Regional Employment Board

10:30 am - ROOMS 4-5

Business Success Stories - An industry panel on clean energy business development tactics that work and enterprise opportunities for entrepreneurs and innovators.

- **Chris Kilfoyle**, President, Berkshire Photovoltaics
- **Pam Howland**, Principal, Natural Siding Associates
- **Mike Kocsmiersky**, Vice President of Research & Development, SolarWrights
- **Marc Sternic**, Vice President, Dietz and Company Architects
- *Moderator: John Laux*, Chief Executive Officer, Greendustry Park

11:50 am – BALLROOM A

Good Jobs, Green Jobs - "Green" products and services are expanding local and national economies, and growing a broad spectrum of career opportunities that offer many entry points and possibilities for advancement. This panel will address the range of clean energy job prospects and training pathways from the perspective of employers, training providers, and incumbent workers.

- **Alex Risley-Schroeder**, Green Careers Coach, Franklin/Hampshire Regional Employment Board & **Teresa Jones**, Sustainable Energy Program Coordinator, Greenfield Community College.
- **Chris Cato**, Green Initiative Project Manager, YouthBuild Boston.
- **Mike Kocsmiersky**, Vice President for Research and Development, SolarWrights.
- **Steven Roberto** - Re/EE student at Greenfield Community College & Residential remodeling contractor.
- *Moderator:* **Patricia Crosby**, Franklin/Hampshire Regional Employment Board

11:50 am – ROOMS 4-5

Invest in Our Future - A finance panel on the funding strategies and policies that support clean energy-driven economic development.

- **Chris Martenson**, Financial Markets Analyst, ChrisMartenson.com
- **Peter Rothstein**, Executive in Residence, Flagship Ventures
- **Larry Union**, Chief Executive Officer, Northeast Biodiesel
- *Moderator:* **Joseph Steig**, Long River Ventures

1:05 pm – PLENARY ROOM

NETWORKING LUNCHEON

*Today's Luncheon is sponsored by
the Western Massachusetts Electric Company*

OPPORTUNITY FAIR

*The Clean Energy Connections Opportunity Fair is sponsored by
WGBY Public Television for Western Massachusetts*

Clean Energy Connections
The 1st Annual Conference and Opportunity Fair

1:45 pm – BALLROOM A and ROOMS 4-5

The Wellspring of Innovation - Voices of clean energy innovators, entrepreneurs, and organizers in the community. A series of short presentations will feature some of the many exciting projects, programs, enterprises and initiatives that are contributing to the development of a vibrant clean energy economy.

BALLROOM A		ROOMS 4-5	
1:45	Nick Arbeloff <i>NE Clean Energy Council</i>	1:50	John Fabel <i>Jattra Ventures</i>
1:53	Patrick Quinlan <i>UMass Amherst Wind Energy Center</i>	1:58	Alan Page <i>Step It Up: Carbon-Neutral Energy Systems</i>
2:01	John Laux <i>Greendustry Park</i>	2:06	Simi Hoque <i>UMass Amherst Green Building Program</i>
2:09	Kirsten Bonanza <i>Gasoline Alley Foundation</i>	2:14	Patricia Moss <i>Ground Work - Springfield</i>
2:17	Daniel Ross <i>Nuestras Raíces – RootsUp Training</i>	2:22	Sean Jeffords <i>Beyond Green Construction</i>
2:25	Dhandapani "DV" Venkataraman <i>UMass Amherst Fueling the Future</i>	2:30	Catherine Miller <i>Pioneer Valley Clean Energy Plan</i>
2:33	Michael Garjian <i>E2M & Angel Eyes Produce</i>	2:38	Eduardo Suárez <i>ECHO for Sustainable Development</i>

1:45 pm - Master of Ceremonies: Nick d'Arbeloff, Executive Director, New England Clean Energy Council

1:50 pm - John Fabel, Principal, Jattra Ventures

Topic: "Tales from the Trenches: Best Practices for Successful Technology Innovation"

1:53 pm - Patrick Quinlan, Managing Director, UMass Amherst Wind Energy Center

Topic: Wind Energy Training program at UMass Amherst

1:58 pm - Alan Page, Founder, StepItUp, Belchertown, MA

Topic: Carbon-Negative Energy Systems

2:01 pm - John Laux, Chief Executive Officer, Greendustry Park, Holyoke, MA

Topic: The making of a green business incubator: Greendustry Park

2:06 pm - Simi Hoque, Assistant Professor, Green Building Program, UMass Amherst

Topic: Research Efforts of the Green Building Program

2:09 pm - Kirsten Bonanza, Executive Director, Gasoline Alley Foundation, Springfield, MA

Topic: Inner-city entrepreneurship training for socially responsible and sustainable business practices.

2:14 pm - Patricia Moss, Ground Work, Springfield, MA

Topic: Green Work's Green Collar Jobs and Brownfield Jobs Training Program

2:17 pm - Daniel Ross, Executive Director, Nuestras Raíces

Topic: The RootsUp Green Jobs Training Program

2:22 pm - Sean Jeffords, Principal, Beyond Green Construction, Easthampton, MA

Topic: An integrated team-work approach to high-performance building and efficiency retrofitting.

The Wellspring (continued)

- 2:25 pm** - UMass Amherst Fueling the Future Center, a NSF Center for Chemical Innovation
Topic: The molecular design of materials that will be the foundation of next-generation energy harvesting technologies
- 2:30 pm** - **Catherine Miller**, Principal Planner, Pioneer Valley Planning Commission
Topic: Pioneer Valley Clean Energy Plan
- 2:33 pm** - **Michael Garjian**, Founder, E2M Initiative for a Sustainable Community, Easthampton, MA
Topic: Angel Eyes Produce business plan to use renewable fuels to power inner-city job creation.
- 2:38 pm** - **Eduardo Suarez**, Founder, Echo for Sustainable Development
Topic: "Think Globally & Act Locally for Planning & Organizing for a Green Economy." Let's build regional assets to create a sustainable future!

2:45 pm – PLENARY ROOM

Powershift: Massachusetts' New Clean Energy Landscape - A policy panel on the whirlwind of recent legislative activity that is setting the stage for a dramatic acceleration of our clean energy economy.

- **The Honorable Daniel Bosley**, Massachusetts State Representative
- **The Honorable Benjamin Downing**, Massachusetts State Senator
- **Phil Giudice**, Commissioner, Massachusetts Department of Energy Resources
- *Moderator:* **M.V. Lee Badgett**, Professor of Economics and Director of the UMass Amherst Center for Public Policy & Administration

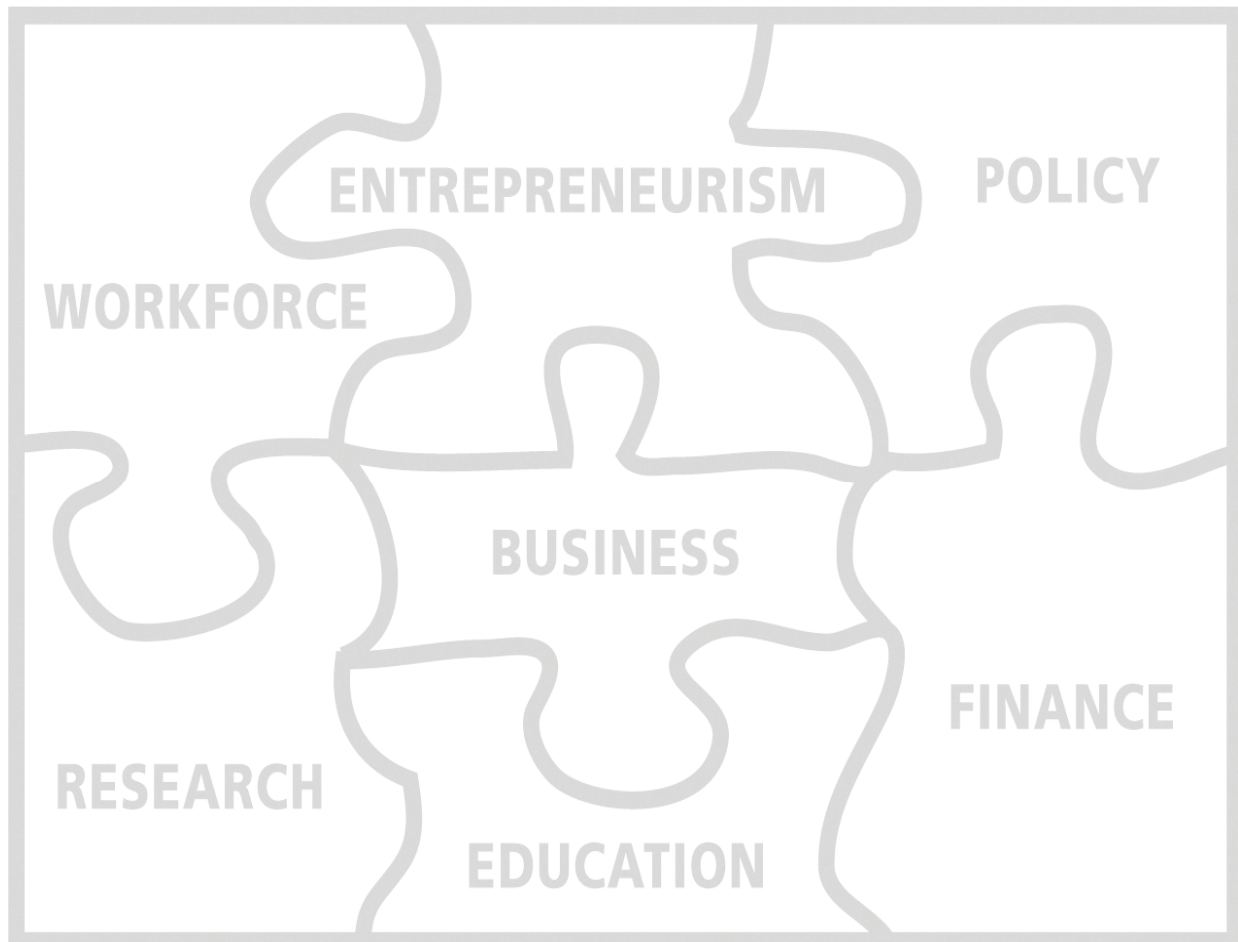
4:00 pm – PLENARY ROOM

OPPORTUNITY FAIR OPEN

See List of OPPORTUNITY FAIR Exhibitors in the following section

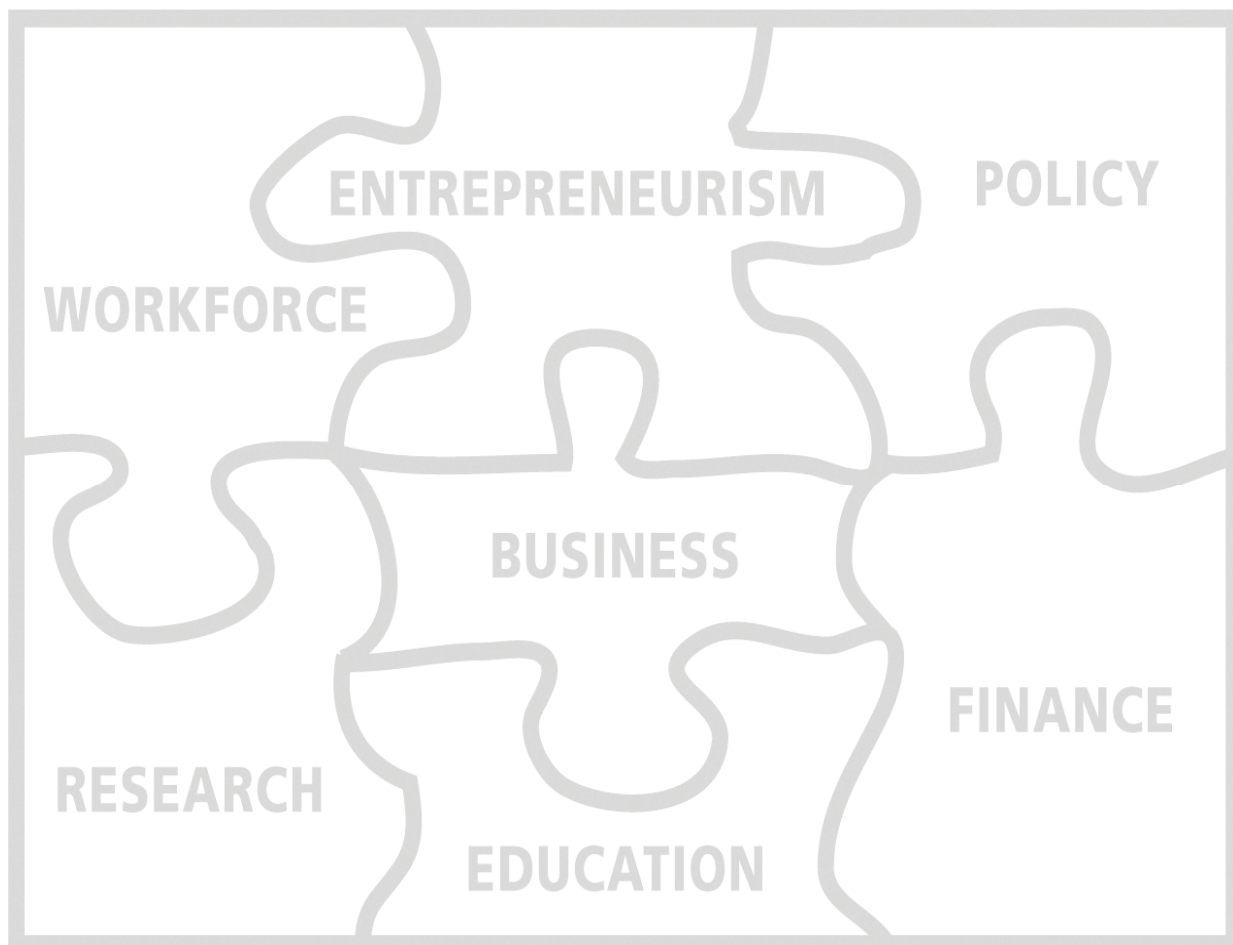
4:45 pm – ADJOURN

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November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

Opportunity Fair Exhibitors

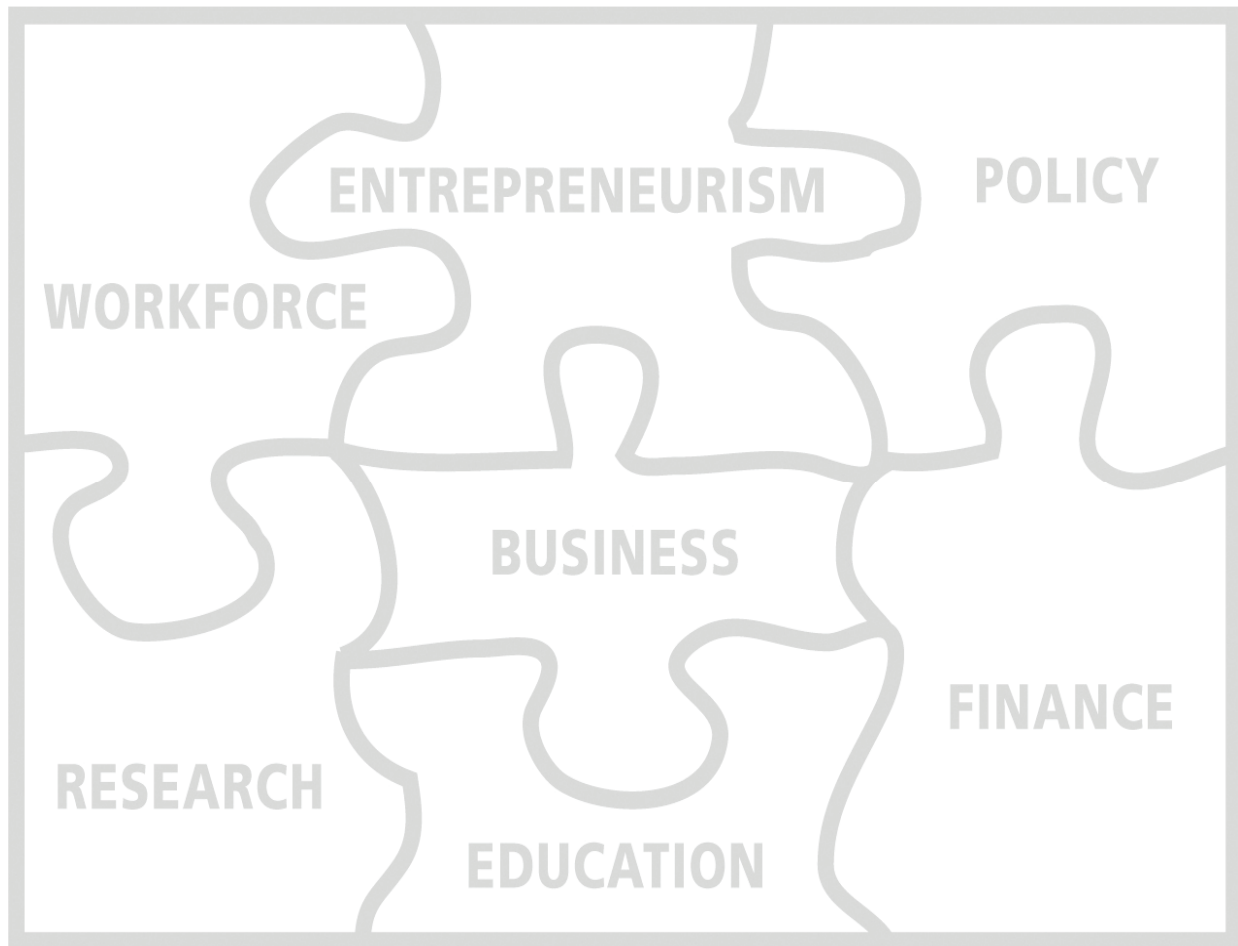


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Applied Ecologics dse@appliedecologics.com 339-227-5386 http://www.appliedecologics.com/	Energy Federation International 40 Washington Street Suite 2000 Westborough, Massachusetts 01581-1088 www.efi.org	Marlboro College-Managing for Sustainability MBA program 28 Vernon Street, Suite 120 Brattleboro, VT 05301 802-258-9200 toll free: 1-888-258-5665 www.gradcenter.marlboro.edu/academic/s/mba	Techniart, Inc. 41 Bridge Street Collinsville, CT 06022 (Next to Collinsville Canoe & Kayak) 860-693-2003 techniart.com
Applied Proactive Technologies 1242 Main Street – 4th Floor Springfield, MA 01103 www.appliedproactive.com	Environmental Compliance Services (Headquarters) 588 Silver Street Agawam, MA 01001 toll free 800.789.3530 www.ecsconsult.com	Mass. Municipal Wholesale Electric Company Moody Street, PO Box 426, Ludlow, MA 01056 (413) 589-0141 www.mmwec.org	Tillou Engineering 46 Spring Street, PO Box 7 Williamstown, MA 01267 Phone: 413-458-9870 www.tillou.eng.pro questions@tillou.eng.pro
Atlantic Geothermal 140 Pine Street Florence, MA 01062Main Office: 413- www.atlanticgeothermal.com	Franklin County Community Development Corporation 324 Wells St Greenfield, MA 01301 Phone: 413-774-7204 www.fccdc.org	New Generation Energy 101 Merrimac Street Boston, MA 02214tel: (617) 624-3688 www.newgenerationenergy.org info@newgenerationenergy.org	Absolute Green Energy Corp. 92 Gardner Street Suite 100 Worcester, MA 01610 www.absolutegreenenergy.com cmadru@absolutegreenenergy.com 508-792-4305
Bay Path College 588 Longmeadow Street Longmeadow, MA 01106 413.565.1000 www.baypath.edu	Fraunhofer-MIT Center for Sustainable Energy 77 Massachusetts Avenue (35-213) Cambridge, MA 02139 www.fraunhofer-cse.org	Page Product Design 221 Pine Street, Suite 430 Florence, MA 01062 413-586-7132 info@pagepd.com www.pagepd.com	Enviro-Lubrication Solutions 5 Clareside Dr East Longmeadow, MA 01028 413-224-1178 envirolubesolutions@yahoo.com
Berkshire Photovoltaic Services 46 Howland Ave. Adams, MA 01220 Tel: 413-743-0152 Fax: 413-743-4827 www.bpvs.com info@bpvs.com	Greendustry Park 413.303.9296 80 Race Street Holyoke, MA 01040 www.greendustrypark.com	Pioneer Valley Renewable Energy Association www.pioneervalleymre.org	
Beyond Green Construction 13 Terrace View Easthampton, MA 01027 413-529-0644 info@beyondgreen.biz http://www.beyondgreen.biz/	Greenfield Business Association 395 Main Street P.O. Box 898 Greenfield, MA 01302 www.greenfieldbusiness.org (413) 774-2791	Progressive Asset Management 1904 Franklin Street, Suite 903 Oakland, CA 94612 information@progressiveassetmanagem nt.com (phone) 800.786.2998 www.progressive-asset.com	
Clark University 950 Main Street · Worcester, MA 01610 Tel: 1-800 GO Clark www.clarku.edu	Greenfield Community College Renewable Energy & Energy Efficiency Courses One College Drive Greenfield, MA 01301-9739 www.gcc.mass.edu/spc	Sirius Ecovillage Community Shutesbury, MA www.siriuscommunity.org	
Co-op Power 24 Wells Street, PO Box 688 Greenfield, MA 01301 www.cooppower.coop	Holyoke Community College 303 Homestead Ave. Holyoke, MA 01040 (413) 538-7000 www.hcc.edu	SolarWrights 17 Burnside Street Bristol, RI 02809 Phone: (401) 396-9901 E-Mail: info@solarwrights.com www.solarwrights.com	
Crystal Car Care 4 Stadler st. (Behind Checkers) Belchertown, Ma 01007 413-323-8789 crystalcarcare.com	Ignite Clean Energy Competition of the MIT Enterprise Forum of Cambridge www.ignitecleanenergy.com	Stiebel Eltron 17 West Street West Hatfield, MA 01088 info@stiebel-eltron-usa.com 800.582.8423 www.stiebel-eltron-usa.com	

Speaker and Presenter Bios



Clean Energy Connections The 1st Annual Conference and Opportunity Fair

Nick d'Arbeloff
Executive Director
New England Clean Energy Council
Wellspring Master of Ceremonies

Nick is a veteran entrepreneur, having held management positions in a number of technology companies and start-ups over the past 20 years. Nick currently serves as Executive Director for the New England Clean Energy Council, a trade group formed in 2007. The Council's mission is to accelerate New England's clean energy economy to global leadership by building an active community of stakeholders and a world-class cluster of clean energy companies. Before joining the Council, he was the CEO and founder of Conjoin, a developer of sales productivity software for corporate sales teams. The company was acquired by Intranets.com (subsequently acquired by WebEx).

Previously, Nick co-founded and served as VP Marketing for Wildfire Communications, which brought to market a voice recognition-based electronic assistant for managing all of an individual's telephone activities. Wildfire was acquired by Orange PLC, now a subsidiary of France Telecom. Nick also served as Vice President of Marketing for C-bridge Internet Solutions, Director of Marketing for PRI Automation, and Product Manager for Apollo Computer. Nick is a representative of The Climate Project, trained by former Vice President Al Gore to educate audiences about the science underlying global climate change. He serves on the Board of the Carlisle Conservation Foundation and the Mass Audubon Council.

Nick holds a BA from Georgetown University.

M.V. Lee Badgett
Director
Center for Public Policy and Administration, UMass Amherst
Professor of Economics, UMass Amherst
Moderator, Powershift: Massachusetts' New Clean Energy Landscape

M. V. Lee Badgett is the director of the Center for Public Policy and Administration at the University of Massachusetts Amherst, as well as a professor of economics. She is a labor economist whose research focuses on family policy issues and on labor market discrimination based on sexual orientation, race, and gender.

Kirsten Bonanza
Executive Director
Gasoline Alley
Wellspring Presenter

Kirsten attended the Millbrook School in New York graduating with a high school diploma in '96. She then went on to Drew University to earn a B.A. in English with a minor in French in '00. While at Drew, Kirsten played Lacrosse, Rugby, Soccer, Equestrian, volunteered for Earth Day, campus living events, and as stage crew for a dance performance, and traveled with the Soccer team to England, Scotland and Wales. She rounded out her college career with a semester abroad at Vesalius College in Brussels, Belgium with a focus on the European Union. During that time, Kirsten traveled for school and for pleasure to London, Paris, Cologne, Aachen, Munich, and throughout Holland and Belgium. She is currently pursuing a Masters degree through Goddard College in Socially Responsible Business and Sustainable Communities (expected '09 grad)(goddard.edu). Her enthusiasm for sustainability drew her to apply for and receive a fellowship through StartingBloc (startingbloc.org), which is where she learned about the Gasoline Alley Foundation. Kirsten sits on the steering committee of Pioneer Valley Local First (pylocalfirst.org), one of the founding BALLE networks, and is a member of the Greater Springfield Young Professionals Society (springfielddyps.com) and the Pioneer Valley Sustainability Network (pvsustain.com). In her spare time she volunteers for various local groups and enjoys to hike, rock climb and kayak.

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

Chris Cato
Green Initiative Project Manager
YouthBuild USA

Panelist, Good Jobs, Green Jobs

Chris Cato is the Green Initiative Project Manager for YouthBuild USA. Chris's primary role is to support the Greening process for YouthBuild programs throughout the United States. Chris is currently assisting with the development of a "green agenda" for Massachusetts YouthBuild Coalition, and has implemented demonstration and planning projects that promote the building affordable Green Homes, increase awareness of renewable energy technologies as a pathway to prepare young adults to become a part of the new green economy. Chris has over 25 years of management experience in youth and community development with a focus on environmental awareness and responsibility. Understanding that we all have an important role in relation to our environment, it has been Chris' mission to increase access to opportunities, build awareness and develop environmental leaders within low-income urban communities. Chris is a member for the Board of Directors of Eagle Eye Institute, (Eagle Eye uses the power of nature to transform urban youth) a Corporate Advisory Board member for the Trustees Of The Reservations (one of the oldest and largest private land conservation and preservation organizations) the United South End Settlements, Camp Hale Alumni Association (executive committee), a member of the Advisory Board for the Appalachian Mountain Club's, Youth Opportunities Program

The Honorable Daniel Bosley
Massachusetts State Representative

Speaker, Powershift: Massachusetts' New Clean Energy Landscape

Representative Daniel E. Bosley, of North Adams, serves as the House Chairman of the Joint Committee on Economic Development and Emerging Technologies in the Massachusetts Legislature. This Committee considers all matters pertaining to economic development within the Commonwealth, including issues related to commercial establishments, industrial development, casino gambling, gaming and the racing industry. Representative Bosley worked extensively on the Economic Stimulus packages that included STEM an initiative to encourage students to pursue the fields of science, technology, engineering, and mathematics as well as encourage technology applications in classrooms and the use of technology in workforce training and development.

The Chairman has been a leader on a number of state policy initiatives including the 1997 electricity restructuring law, rewriting unemployment insurance laws twice, multiple economic stimulus bills, and groundbreaking stem cell legislation. Most recently, he has taken the lead on a \$1 billion life sciences bill, the green communities act, the expansion of broadband service, the green jobs initiative, the preservation of the dairy industry, and the creative economy council. Representative Bosley has served as Chairman of the Council of State Governments Eastern Regional Conference (CSG/ERC) Export Promotion Task Force and as Chair of the Electric Deregulation Task Force. He rose through the organization and in 2004 he was elected as the CSG National Chairman. First elected as State Representative in 1986, Representative Bosley is currently serving his eleventh term. Bosley graduated *cum laude* from North Adams State College in 1976 with a BA in History and Political Science. In 1996, he received his MA in Public Policy from UMass Boston. In 2001, Massachusetts College of Liberal Arts awarded Bosley with an honorary Doctor of Laws. He lives in North Adams with his wife, Laura, and his daughter, Stephanie.

Patricia H. Crosby
Executive Director
Franklin Hampshire Regional Employment Board

Moderator, Good Jobs Green Jobs

Patricia Crosby is Executive Director of the Franklin Hampshire Regional Employment Board, overseeing nearly 4 million dollars in workforce development funding for two counties plus the North Quabbin region. She is a graduate of Greenfield Community College; Catholic University (B.A. English); and Brown University (M.A.T. English). After early work in education and juvenile justice, she became Occupational Education Liaison and Director of Special Projects at Springfield Technical Community College, (1991-2001). A few of the projects she co-developed and launched were Tech Prep West, the Western Mass Gender Equity Center, and the Construction Industries Training Assistance Program. She is on the Board of Directors for the Franklin County Chamber of Commerce; and is a member of the state Leadership Council for the Governors Readiness Project. She was the recipient of the DYS Commissioner's Award for Excellence in Teaching in 1986; and the National Institute for Staff and Organizational Development (NISOD) award for Enhancement of Teaching and Learning in 2001.

Clean Energy Connections The 1st Annual Conference and Opportunity Fair

The Honorable Benjamin Downing **Massachusetts State Senator**

Speaker, Powershift: Massachusetts' New Clean Energy Landscape

Benjamin B. Downing (D-Pittsfield) was elected to the Massachusetts Senate on November 7, 2006. Senator Downing represents 48 communities in Berkshire, Hampshire and Franklin Counties , proudly serving the largest Senate district in the Commonwealth. Senator Downing's top legislative priority is promoting sustainable economic development through expanded access to broadband Internet in unserved and under-served communities and making critical investments in transportation and housing.

As Chair of the Senate Committee on Ethics and Rules, Senator Downing considers all violations of rules and all questions of conduct of Senators and employees of the Senate. His Committee is also authorized to recommend policy procedures for the Senate and recommend rules changes for matters requiring the expeditious action by the Senate. He also serves as Vice-Chair of the Joint Committee on Higher Education, the Vice-Chair of the Senate Committee on Bills in the Third Reading and is an active member of the Committees on Financial Services, Veterans & Federal Affairs, Consumer Protection & Professional Licensure and Senate Post Audit & Oversight. Additionally, Senator Downing is a participating member of the Regional Schools Legislative Caucus. Senator Downing is the former Chairman of the Joint Committee on Public Service, during which time he considered important matters regarding salaries, civil service and retirement of public employees, and collective bargaining for state and other public employees.

Since beginning his service, Senator Downing has represented the Senate in a variety of capacities. He has served on the Governor's Local Government Advisory Commission, where members of the administration, legislature, and municipal government seek to address municipal concerns. He has represented Massachusetts at the Council of State Government's (CSG) Eastern Leadership Academy and is a member of the National Conference of State Legislatures (NCSL) Standing Committee on Agriculture, Environment, and Energy. In Pittsfield , the Senator serves as the Co-Chair of the Leadership Council to End Chronic Homelessness in Berkshire County . A Pittsfield native, Senator Downing received his B.A. in Political Science from Providence College (2003). In May 2008, he received a M.A. from Tufts University 's Department of Urban and Environment Policy & Planning. Before returning to Pittsfield , Senator Downing lived in Washington , D.C. working for U.S. Representatives William Delahunt (D-Quincy) and Richard E. Neal (D-Springfield), before joining the staff of U.S. Representative John W. Olver (D-Amherst). For nearly 2 years, he served as Congressman Olver's senior advisor on housing, budget, tax, homeland security and foreign affairs. Senator Downing's family has a long history of public service. He is the oldest of four children (Maggie, Nate & Nick) raised by late Berkshire District Attorney Gerard and Pamela Downing.

Kevin Doyle **Principal** **Green Economy**

Speaker, Future Energy Careers

Kevin Doyle is Principal of Green Economy, an independent consulting firm for public, private, nonprofit and academic employers in the United States, its territories, and other parts of the world. Green Economy offers research, planning, facilitation, and education services that help employers earn high scores on the "triple bottom line" of ecological health, economic security and social justice. Clients/funders include National Oceanic and Atmospheric Administration, USDA Forest Service, National Grid, NStar, Conservation Services Group, New England Clean Energy Council, Yale School of Forestry and Environmental Studies, University of Michigan School of Natural Resources, National Council for Science and the Environment, Texas Tech University, and many others.

Kevin is the co-chair of the New England Clean Energy Council's workforce development group, the "green careers" advice columnist for Grist Magazine (www.grist.org), and the co-author of three books about environmental careers, including *The ECO Guide to Careers That Make a Difference: Environmental Work for a Sustainable World* (Island Press). Information from Green Economy has been featured in *Newsweek*, *Forbes*, *New York Times*, *Boston Globe Magazine*, *E Magazine*, and on National Public Radio. He is a frequent speaker at college campuses, career service organizations and green career conferences.

Prior to launching Green Economy in June, 2007, Kevin was the National Director for Program Development at The Environmental Careers Organization (ECO), a national, nonprofit organization that created over 11,000 environmentally-related internships and fellowships in dozens of different "green" career areas.

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John Fabel
Principal
Jattra Ventures
Wellspring Presenter

Inventor, entrepreneur and educator John Fabel both practices and teaches technology innovation and commercialization, with a particular emphasis on sustainable development. Based in Amherst, Massachusetts, John is a founding partner in green technology firm **Jattra Ventures, llc**, which links entrepreneurial skill with technical skill to commercialize promising early-stage green technologies. John is a founding partner of Jattra spin-off **SunEthanol, Inc** a biofuels technology company developing a novel process for making ethanol from sustainable, non-food biomass feedstocks.

Originally trained as a climate scientist, John has spent that last 20 years working on developing technology, market strategies and best practices for addressing environmental challenges and opportunities. As an educator, John has developed and taught course sequences in *Technology Innovation and Commercialization* at both the *Isenberg School of Management* at the University of Massachusetts, Amherst, and at Hampshire College, where he spent 4 years as visiting Lemelson professor of design and entrepreneurship.

A repeatedly successful inventor and entrepreneur, John's licensed technology and product designs are sold in over 20 countries. John has received numerous awards for his design and development work, and his work has been widely featured in the media, most recently on the Discovery Channel and on the cover of both *Popular Science* and *Popular Mechanics*. John's design work is held in the permanent collection of several museums, including the Smithsonian, where he is featured in the "Invention at Play" exhibit on American inventors. John is also featured in Daniel Pink's recent bestselling book "*A Whole New Mind*", which discusses the practices of successful innovators and entrepreneurs.

John Fabel's Wellspring presentation summary: It's one thing to have a great idea; it's another to successfully translate this idea into a successful application and venture. In this presentation I identify some common themes in successful technology innovation and commercialization, with particular reference to the opportunities and challenges of sustainable development.

Michael Garjian
Founder
E2M Initiative for a Sustainable Community, Easthampton, MA
Wellspring Presenter

As a commercial entrepreneur, Michael Garjian holds nine worldwide patents for technology inventions he manufactured and distributed globally during a 35 year period with the help of four hundred of his employees. As Director of Small Business Development at the Valley Community Development Corporation, he helped low to moderate income entrepreneurs launch more than 60 businesses in Hampshire County. He worked with the Alliance to Develop Power, a group of 1450 low income families occupying tenant owned apartment complexes, to help form a tenant owned worker coop and taught classes in areas relating to finance and economic power. He worked with the US EPA, Mass DEP, Massachusetts and North Carolina state legislators, and the City of Cincinnati, to develop and implement procedures to expand the use of pure vegetable oil as a replacement for fossil fuels.

Garjian is now CEO of the Vegetable Energy Group, LLC d/b/a Vee-Go Energy and is a principal in Sunrise Oil, LLC which produce solid biomass and vegetable oil biofuels. As a partner in Angel Eyes Produce of New England he is planning a facility to use a proprietary indoor growing technology to grow certified organic crops in biologically dynamic soils in inner city buildings while employing inner city residents at living wages. On January 1, 2000, Garjian founded E2M.org to establish E2M, an Economic Model for Millennium 2000 which is a sustainable system of community capitalism he conceived to provide an alternative to the current unsustainable economic system. E2M, now been established and is growing in Western Mass, and enjoys the support of elected officials, educators, labor leaders, entrepreneurs, students, and community members as well as the interest of leaders in a major US city and one foreign country.

Michael Garjian's Wellspring presentation summary: This presentation explains how a group of local E2M member companies will be using renewable fuels to power a 260,000 sq ft inner city building in West Springfield, MA that will be used to grow safe, certified

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organic crops, indoors, year round, in biologically dynamic soils while employing inner city residents at living wages. The goal of this initiative is to expand E2M and help eradicate poverty, hunger, and homelessness while establishing an urban based indoor farming industry and economy to provide highly nutritious foods at consumer friendly prices de-linked from the price of fossil fuels and regardless of the prevailing economic, social, or environmental conditions.

Phil Giudice **Commissioner**

Massachusetts Department of Energy Resources

Speaker, Powershift: Massachusetts' New Clean Energy Landscape

Commissioner Giudice brings diverse and expansive experience to DOER. He is a geologist (B.S. from University of New Hampshire and M.S. in Economic Geology from the University of Arizona) and management professional (M.B.A. from Tuck School of Business at Dartmouth) with over 30 years experience in the energy industry. Commissioner Giudice serves as board member, board executive committee member and treasurer of the Regional Greenhouse Gas Initiative, Governing Board chair for the Massachusetts Renewable Energy Trust, board member for the National Association of State Energy Officials, leadership group member for the National Action Plan for Energy Efficiency, vice chair for the National Council on Electricity Policy and a board member of the Commonwealth's Energy Facilities Siting Board. Prior to joining DOER, Commissioner Giudice served as Senior Vice President at EnerNOC, a start-up company providing electricity demand-management services to businesses, institutions, utilities, and grid operators. The Commissioner was also a Senior Partner, and leader of Mercer Management Consulting's global energy utilities practice. Commissioner Giudice is also active in the nonprofit realm. He is board chair of the Center for Effective Philanthropy and serves on the President's Council of ACCION. Previously, he served full terms on the board of City Year Boston, First Parish Church of Wayland (Unitarian Universalist), Haitian Health Foundation, and was the founding chair of Boston Cares.

Bracken Hendricks **Senior Fellow with American Progress** **Co-Founder of Apollo Alliance** ***Key Note speaker***

As a Senior Fellow with American Progress Bracken Hendricks works on issues of climate change and energy independence, environmental protection, infrastructure investment, and economic policy, with a focus on broadening progressive constituencies and message framing. Hendricks served in the Clinton Administration as a Special Assistant to the Office of Vice President Al Gore and with the Department of Commerce's National Oceanic and Atmospheric Administration, where he worked on the Interagency Climate Change Working Group, the President's Council on Sustainable Development, and the White House Livable Communities Task Force on issues of public safety, electronic government, oceans policy, trade and the environment, and smart growth. Hendricks was the founding Executive Director and is currently a National Steering Committee member of the Apollo Alliance for good jobs and energy independence, a coalition of labor, environmental, business and community leaders dedicated to changing the politics of energy independence. Hendricks served as a Consultant to the Office of the President of the AFL-CIO and as an Economic Analyst with the AFL-CIO Working for America Institute. He has been a member of Pennsylvania Governor Ed Rendell's Energy Advisory Task Force, the Cornell University Eco-Industrial Round Table, and the Energy Future Coalition. He is also a philanthropic advisor to the Wallace Global Fund on matters of Civic Engagement and Democratic Participation. Hendricks serves on the board of Green HOME, a Washington DC based non-profit promoting green building in affordable housing and has worked on political campaigns in the private sector. Hendricks is widely published on economic development, climate and energy policy, national security, and progressive political strategy. Bracken received his Bachelor's Degree in Fine Arts with a Minor in Sociology from Mary Baldwin College, and holds a Master's Degree in Public Policy and Urban Planning from Harvard University's John F. Kennedy School of Government.

Dr. Simi Hoque **Assistant Professor** **Green Building Program** **UMass Amherst** ***Wellspring Presenter***

Dr. Simi Hoque teaches environmental systems and sustainable design principles. Her research is focused around the application and development of energy efficient buildings. She specializes in energy modeling, resource efficiency, and systems design and is seeking to improve the way buildings use the earth's resources. Hoque is the co-founder of Floodspace, a research and design collaborative, whose mission is to develop strategies for improved housing, infrastructure, and livelihood in communities subject to climate change-related flooding. Dr. Hoque is a member of the American Society of Heating, Cooling, and Air Conditioning Engineers and the Boston

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chapter of Engineers Without Borders. Before her appointment to the NRC faculty in 2008, Hoque was a lecturer in the Department of Architecture at the Massachusetts Institute of Technology. At that time she was a consulting mechanical engineer at Norian/Siani Engineering, Inc. in Waltham, MA

Pam Howland
Principal
Natural Siding Associates

Speaker, Business Success Stories

Since 1970 Pam has worked on anti-poverty issues through community organizing and economic development, mental health administration and children's rights advocacy, fair housing, land use planning and affordable housing development, administering federal, state and private financing. In 2000 she started a business in construction of small houses and most recently as owner of Natural Siding Associates, Inc. has employed 57 entry-level workers from low-income neighborhoods. Currently Pam is initiating a Springfield-area green jobs program training public housing tenants in energy efficiency trades to retro-fit municipal and state-owned buildings. Pam holds a Masters in Public Administration from UMASS and in November will moderate a panel at the International Greenbuild Expo on Global Warming and the Concentration of Poverty. **Current memberships and affiliations:** Chair of the Green Building Committee of the Home Builders Association of Western Massachusetts; Member of The Pioneer Valley Sustainability Network; Partner in the Sustainable Practices in Construction Group; Member of the Green Building Roundtable and the U. S. Green Building Council; Board of Directors, Housing and Economic Resources for Women.

Sean Jeffords
Principal
Beyond Green Construction, Easthampton, MA

Wellspring Presenter

Sean Jeffords and Doug Snyder of Beyond Green Construction speak of how integrated design and solid teamwork are crucial tools in rebuilding our current housing stock into healthy, safe, energy efficient, high performance homes. Also hear how they are working to make energy efficiency affordable for all.

Sean Jeffords has been working in the construction industry since 1987. He holds his construction supervisors license which oversees residential, commercial, industrial, and power plant production facilities. Sean has worked in all facets of construction, including but not limited to energy efficiency, indoor air quality, moisture management, alternative energy systems, rainwater collection, passive solar design, as well as eco-community planning. Sean's focus has always been towards energy efficiency and other green measures, and at present is focused on a green redeveloping of existing building stock. Sean's work has also been featured nation wide on the Discovery Channel's new series *Renovation Nation* with Steve Thomas from *This Old House*.

Sean is the founding principal of Beyond Green Construction, which is a comprehensive multi-service green building outfit. The Beyond Green model uses an integrated teamwork approach to designing and accomplishing the construction of high-performance buildings, as well as energy efficiency upgrades. Beyond Green is also initiating a collaborative effort to lobbying for the appropriate increase in state and federal tax incentives to make these necessary energy efficiency improvements viable for all. Currently incentives are sized for basic weatherization measures and alternative energy systems and do not address the expense related to retrofitting a home to be truly energy efficient.

Sean Jefford's Wellspring presentation summary: Does your basement smell musty? Are you spending too much money to heat your home? Should we start becoming more aggressive about saving our environment?

If you have answered yes to any of these questions.....Sean Jeffords and Doug Snyder of Beyond Green Construction speak of how integrated design and solid teamwork are crucial tools in rebuilding our current housing stock into healthy, safe, energy efficient, high performance homes. Also hear how they are working to make energy efficiency affordable for all.

Teresa Jones
Sustainable Energy Program Coordinator
Greenfield Community College

Speaker, Good Jobs Green Jobs

Teresa B. Jones teaches Sustainable Energy and plant science courses at Greenfield Community College. As Program Coordinator, she directs program development of the rapidly growing certificate and pending associate's degree program in Renewable Energy / Energy Efficiency. The program combines workforce and academic goals through innovative collaboration between the science department,

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community education (workforce development), the Hampshire/Franklin Regional Employment Board, regional employers, community-based organizations, technical and comprehensive high schools, non-profits and agencies and four-year programs. Teresa earned a dual B.A. from Yale University in History and Environmental Studies and a M.A. in Plant Biology from the University of Massachusetts. She also works with her husband to integrate energy efficiency and renewable technologies into their wholesale organic farm and greenhouse operation in Whately, MA.

Chris Kilfoyle

President

Photovoltaic Services

Speaker, Business Success Stories

President of Berkshire Photovoltaic Services, BPVS, and founded the firm in 1985. BPVS has helped pioneer the technology in the region installing over 200 PV systems including those for early PV Pilot programs sponsored by Massachusetts utilities and for NREL and DOE demonstration projects. Kilfoyle has presented on PV at the annual NESEA conference and at colleges and universities throughout the region. He served as an advisor to the Cornell 2005 Solar Decathlon team. A founding member of SEBANE, the Solar Energy Business Association of New England, he presently serves as Vice-President of the 85 member organization. Kilfoyle is a 1976 graduate from the Massachusetts College of Liberal Arts. He is a NABCEP certified PV installer and Massachusetts Licensed Construction Supervisor.

Mike Kocsmiersky

Vice President of Research & Development

Solar Wrights, Inc

Speaker, Business Success Stories

Mr. Kocsmiersky is Vice President of Research & Development with SolarWrights, Inc., an energy conservation and renewable energy generation company whose mission is to help people live more sustainable lifestyles through energy conservation and renewable energy generation. Mr. Kocsmiersky was founder and president of Kosmo Solar a Springfield Massachusetts based alternative energy solutions provider, which was acquired by SolarWrights in early 2008. Certified energy engineer by the Association of Energy Engineers (AEE); Certified solar installer by the North American Board of Certified Energy Practitioners (NABCEP); Certified Building Analyst and Building Shell Specialist from the Building Performance Institute (BPI); Member of the American Solar Energy Society (ASES); Solar Energy Business Association of New England (SEBANE), and has recently founded the Springfield chapter of the North East Sustainable Energy Association (NESEA). Bachelor of Science degree in solid state physics from the University of Rochester. Instructor at Springfield Community College for the curriculum of installation of photovoltaic systems.

Mr. Kocsmiersky has made a lifestyle of energy efficiency and solar energy both in his career and his personal life. He has lived with solar hot water heating, solar electric, solar ovens, and implemented various energy conservation measures in his own home. Professionally he has designed both domestic and international off grid solar hybrid power systems, and installed several of solar energy systems.

John Laux

Chief Executive Officer

Greendustry Park

Moderator, Business Success Stories & Wellspring Presenter

Before founding Greendustry Park, John owned and operated technology businesses ranging in scope from multimedia application development to industrial automation. While working for the University of Massachusetts in the 1990s he was responsible for long distance satellite communications and large scale website design and development. He has over 25 years in developing commercial websites and the implementation, integration and management of large scale business platforms including accounting, eCommerce, digital communications and automation as well as facilities, and staff management.

Chris Martenson, PhD.

Financial Markets Analyst

ChrisMartenson.com

Speaker, Invest in our Future

Dr. Chris Martenson is the creator of *The End of Money* (live) and *The Crash Course* (on-line) economic seminar series, has extensive experience analyzing and communicating financial information, and publishes a weekly newsletter on the economy and finance (located at <http://chrismartenson.com>). Dr. Martenson combines a scientist's attention to fact and analysis (PhD, Duke University,

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Pathology and Toxicology) with a solid understanding of finance and economics (MBA, Cornell, Finance) with strategic thinking (4 years as a management consultant). He currently operates a website devoted to spreading financial and economic awareness that is visited by over 10,000 visitors each day. *The Crash Course* has been viewed more than 250,000 times and is currently being made into a DVD and book. His past work has involved the development and oversight of \$100M+ budgets, using portfolio decision tools to enhance governance & prioritization efforts, and investigating how neurons work. He has been published in the scientific journal *Nature*, consulted to fortune 50 companies, and lectured and written extensively on economic and financial topics. His diverse background allows him to synthesize complex subjects across diverse fields. In the end, though, he is a proud father and a concerned citizen and this is what drives his work.

Catherine Miller
Principal Planner
Pioneer Valley Planning Commission
Wellspring Presenter

Catherine Miller--Principal Planner, Sustainability B.A. History and Literature, Brown University, M.S. Urban and Regional Planning, University of Wisconsin-Madison. 23 years experience in sustainable community development with a focus on the intersection of transportation and land use planning--focusing most recently on the promotion of smart growth, clean energy, and energy use reduction, conservation and efficiency to mitigate and adapt to climate change.

Patricia Moss
Co-Founder and Project Manager
Groundwork, Springfield, MA
Wellspring Presenter

Ms. Moss began her career as the youngest Tenant Council President in the history of the Springfield Housing Authority. She was charged with the coordination of a \$1.5 million renovation pilot project. This project involved tenant recruitment, working with the Housing Authority to develop the renovation plans, learning to read architectural plans and overseeing construction plans to improve the development. Ms. Moss went on to hold the positions of Western Massachusetts Coordinator and Organizer for the Massachusetts Union of Public Housing Tenants and the Western Massachusetts Coordinator for the Anti-Hunger Coalition. During her employment with the Massachusetts Union of Public Housing Tenants, Ms. Moss was responsible for the education and development of 15 tenant associations in Springfield, Holyoke and Chicopee Massachusetts. Additionally, she served as a Technical Assistance Provider for the Institute for Community Economics where she traveled nationwide to recruit and train residents to develop Community Land Trusts in their communities.

Patricia has extensive experience as a public speaker, and project developer, and has been instrumental in building collaborations. She has delivered her message of organizing communities from the inside out at Harvard University, Wellesley College, and Lewis & Clark College in Portland, Oregon, Lancaster PA., and in many other communities from Massachusetts to Key West, Florida. Patricia is also known for the development of the Springfield Community Outreach Partnership Center from 2000-2002.

Ms. Moss is the cofounder and Project Manager of Groundwork Springfield. This Groundwork Trust Pilot Project was chosen by Groundwork USA July, 2007. She has worked tirelessly for three years to create a coalition of active members to serve on the Groundwork Springfield Steering Committee. Those members include the Spanish American Union, Springfield Technical Community College, the Parks and Recreation Department of Springfield, Pioneer Valley Planning Commission, the Gasoline Alley Foundation, Citizens Bank, the Mayor's Office, the Hungry Hill CDC, the National Park Service, the Springfield Republican, the Vietnamese American Civic Association, American International College, Western New England College, retired school teacher, Ms. Doris Robinson, and other advisors such as the Greater Springfield Chamber of Commerce.

The city of Springfield has been Ms. Moss' primary residence for most of her life. She was educated in Springfield from primary school at Deberry Elementary School to receiving her Associates degree in Law Enforcement/ Criminal Justice, at Springfield Technical Community College, and her Bachelors in Human Services from Springfield College. Ms. Moss has extensive network connections within the community and is known in Springfield for her commitment to uplifting those who are less fortunate. She has served on the boards of several community, and national organizations, including the United Way, Arise for Social and Economic Justice, national steering committee for the Food Research and Action Center of Washington D.C. and is also a former board member of the Spanish American Union.

Patricia Moss's Wellspring presentation summary: The new faces of the environmental movement, Jobs, Economic justice and opportunity

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Alan Page

Founder

StepItUp, Belchertown, MA

Wellspring Presenter

Alan Page is a native MA resident, who works as a forester from his home in Belchertown, MA. Over the course of forty years of professional forest management, Page has watched forests as investors and other private owners chose to use the forest as a cash cow with no concern for the integrity of the ecosystems that were part of their trust as financial stewards. Along the way he acquired a small band saw mill to understand the performance of trees in particular situations. Since the early eighties Page has operated a small consulting forestry company through which he sought to apply the principles of tree physiology that had been the basis for his graduate studies. On those acres that received regular forest management it has become apparent that even in the face of heavy cutting the forest just continues to improve. This will happen as long as there are resources to employ people where necessary on these properties. Recently, Page has become involved in formation and maintenance of a group in Belchertown, StepItUpBelchertown, to raise awareness about the bases of problems we are now witnessing. A small group of these attendees formed to review the alternatives that are possible with a carbon-negative society. Benefits from this unexpected source include: carbon sequestration, pollution remediation, soil nutrient retention, soil strength, aeration and drainage improvement, improvement in crop production, local clean energy production, maintenance of strong local economies, and a means for evolving a new more sustainable lifestyle.

Robert Pollin

Professor of Economics &

Founding Co-director of the Political Economy Research Institute (PERI) at the University of Massachusetts-Amherst.

Speaker, Future Careers

Robert Pollin's research centers on macroeconomics, conditions for low-wage workers in the U.S. and globally, the analysis of financial markets, and the economics of building a clean-energy economy in the U.S. His books include *A Measure of Fairness: The Economics of Living Wages and Minimum Wages in the United States* (co-authored, 2008); *An Employment-Targeted Economic Program for Kenya* (co-authored, 2008); *An Employment-Targeted Economic Program for South Africa* (co-authored, 2007); *Contours of Descent: U.S. Economic Fractures and the Landscape of Global Austerity* (2003); and *The Living Wage: Building A Fair Economy* (co-authored 1998); and the edited volumes *Human Development in the Era of Globalization* (co-edited 2006); *Globalization and Progressive Economic Policy* (co-edited, 1998); *The Macroeconomics of Saving, Finance, and Investment* (1997); and *Transforming the U.S. Financial System* (co-edited 1993). . Most recently, he co-authored "Job Opportunities for the Green Economy," (June 2008) and "Green Recovery," (September 2008), exploring the broader economic benefits from large-scale investments to build a clean-energy economy in the United States. He has worked with the United Nations Development Program and the United Nations Economic Commission on Africa on policies to promote to promote decent employment expansion and poverty reduction in Latin America and more recently, sub-Saharan Africa. He has also worked with the Joint Economic Committee of the U.S. Congress and as a member of the Capital Formation Subcouncil of the U.S. Competitiveness Policy Council.

Patrick Quinlan

Managing Director

Wind Energy Center, UMass Amherst

Wellspring Presenter

Patrick Quinlan manages the Wind Energy Center at the University of Massachusetts, the oldest wind energy academic program in the United States. Patrick has been actively involved in wind power and clean technology development since 1982, including serving as Congressional Fellow in the office of the Ranking Member of the House Science Committee and as the ASME White House Technology Fellow supporting the Presidential Science Advisor at the White House Office of Science and Technology Policy. Patrick also worked at the National Renewable Energy Laboratory on the Federal wind energy, solar energy, geothermal, and hydrogen technology programs. Patrick holds a B.Sc. in Mechanical Engineering from the University of Massachusetts, an M.Sc. in Mechanical Engineering from the University of Wisconsin, and a Professional Engineering license in mechanical engineering in California.

Alex Risley-Schroeder

Green Careers Coach

Franklin-Hampshire Careers Center & Regional Employment Board

Speaker, Good Jobs Green Jobs

Alex Risley Schroeder has nearly two decades of experience in adult basic education and workforce development arenas. Her work has included program design and management, professional development and training and policy education and advocacy. Currently she is the Green Careers Coach with the Franklin / Hampshire Regional Employment Board. She also works with the Massachusetts

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Workforce Alliance and as a consultant focusing on green career awareness and training for adult basic education students. Alex has a Masters of Education and a Doctor of Ministry degree, both of which focus on adult and community education.

Steve Roberto

Speaker, Good Jobs Green Jobs

Steve Roberto has run a residential remodeling company since 1986, including construction of his own low-energy green home. He has managed and trained employees in construction practices and safety and managed all business aspects of the company. Prior to this, Steve worked as senior marketing specialist for Data General Corporation in Westboro, MA and a telephone technician for New England Telephone Company. He has a B.S. in Psychology from the University of Massachusetts, and served as Staff Sergeant in the U.S. Air Force. He is currently enrolled in the Renewable Energy / Energy Efficiency Certificate program at Greenfield Community College.

Daniel Ross

Executive Director

Nuestras Raices, Inc.

Wellspring Presenter

Daniel Ross is Executive Director of Nuestras Raices. Nuestras Raices is a grassroots organization that promotes sustainable development in Holyoke, MA through projects relating to food, agriculture and the environment. We have community gardens, immigrant beginning farmer training and incubation programs, nationally-recognized youth development programs, sustainable enterprise development programs, community-led policy councils, all growing from the culture and assets of the low-income, primarily Latino, community of Holyoke.

Recognized as a world-leading social entrepreneur with a lifetime fellowship from Ashoka – Innovators for the Public Good. 14 years as Director of Nuestras Raices, a grass-roots organization to promote economic, human and community development in Holyoke, Massachusetts through projects relating to food, agriculture and the environment. During this time the organization has developed an extensive network of community gardens, a youth farming and leadership program, an environmental justice program, an organic artisan bakery, beginning farmer training and incubator program with 30 acres of fertile farm land, and constructed the Centro Agrícola for community education and business development. He has helped community members start over 25 sustainable small food and agriculture businesses. Founding leader of the Holyoke Food & Fitness Policy Council (awarded a \$4.5 million WK Kellogg Foundation grant in 2007), the Holyoke Youth Task Force and the Pioneer Valley Environmental Coalition (funded by the US EPA). He has previous experience working with community health clinics in New Jersey, Florida and Massachusetts to develop migrant farm worker outreach programs with the East Coast Migrant Health Project. Winner of Ashoka Fellowship in 2007, the Do Something Brick Award for Community Leadership in 1999, Environmental Recognition from the City of Holyoke Conservation Commission in 2001, recognized for Leadership by the WK Kellogg Foundation. Board Member/Trustee of the Western Massachusetts Enterprise Fund, Trustees of Reservations, New England Grassroots Environment Fund, among others. Husband and father of 3 children, marathon runner and youth soccer coach.

Peter Rothstein

Executive in Residence

Flagship Ventures

Speaker, Invest in our Future

Peter is Executive-In-Residence at **Flagship Ventures**, a leading seed and early stage venture capital firm in Cambridge Massachusetts. Peter joined Flagship in 2007, expanding Flagship's investment and venture creation focus on emerging **Sustainability** opportunities, and bringing many years of deal experience, startup venture development and industry relationships in the cleantech venture market. Peter has been involved in several of Flagship's cleantech deals and portfolio companies, including **Ze-gen** (an advanced gasification company focused on gasifying various municipal waste streams and producing electricity) and Novomer (a catalytic process company using CO and CO2 for energy-efficient, environmentally-friendly plastics, polymers and specialty chemicals). Peter was also startup executive with **Mascoma**, a Flagship portfolio company in the cellulosic ethanol market.

Prior to joining Flagship, Peter was President of **Allegro Strategy**, a consultant, advisor and interim executive with early-stage, high-tech, and cleantech startups. Peter's work has focused on early-stage venture development, and is based on a career with extensive entrepreneurial, strategy, venture development, venture deals, acquisitions, and general management experience in energy and digital media/software markets. Peter has been an interim executive, advisor, and/or board member with a number of VC-funded early-stage companies, including cleantech startups **Mascoma**, **Boston-Power**, and **Mechanology**, and digital media/software ventures

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WorkshopLive, MetaCarta and Pyxis Mobile. Peter has founded several companies including The **Human Interface Group, Inc.**, which was acquired by Lotus Development in 1994. Peter spent several years at **Lotus** and **IBM** in various executives roles focused on incubating, starting, and leading new knowledge management businesses, including strategy and acquisitions experience. After Lotus/IBM, Peter was a Partner at **Kodiak Venture Partners**, focusing on seed and early stage Internet ventures before founding **Allegro Strategy** to work directly with early-stage ventures and to return to energy technology opportunities.

Peter has a Masters degree from the **MIT Sloan School of Management** with a concentration in energy economics and finance, and a BA in Environmental Design from **Clark University**. He co-chairs the **New England Clean Energy Council's Innovation Task Force**, and is a member of the **National Renewable Energy Lab's VC Advisory Board**.

Joseph Steig
CFO

Long River Ventures

Moderator, Invest in our Future

Joseph Steig is CFO of the venture capital firm Long River Ventures. He also serves as Manager of Venture Development at the National Collegiate Inventors & Innovators Alliance where he directs their Venture Well program. Joseph has a background working for and advising entrepreneurial companies and non-profits in a CFO and COO capacity. He has worked in a diverse range of industries including software, aquaculture, consumer products and real estate and has extensive experience in technology economic development. He also founded the angel group River Valley Investors. Joseph has a B.A. from Hampshire College. Contact information and links to Long River Ventures and Venture Well are at www.steig.com.

Marc Sternic
Vice President

Dietz and Company Architects

Speaker, Business Success Stories

Marc Sternick is the Vice President and Senior Project Architect for Dietz & Company Architects and oversees their affordable housing and green building efforts. He was the principal designer for the award-winning Churchill Neighborhood project in Holyoke, MA and is the principal designer for the new community being developed on the site of the former Northampton State Mental Hospital, now called The Village at Hospital Hill. He has provided planning and design services for numerous multi-family housing, educational and commercial projects throughout Western Massachusetts.

Marc's professional activities include membership in the North East Sustainable Energy Association (NESEA) and three years being Track Chair for the annual Building Energy Conference. Marc has lectured on the topic of Affordable Green Housing at Build Boston, NESEA's Building Energy Conference and is a regular lecturer at the University of Massachusetts/Amherst's Urban Design Class. Marc has spent over 25 years assessing, designing and/or constructing high quality, affordable housing. His long-term interest and experience with energy-efficient construction techniques and indoor air quality issues has led to his expertise in those areas. His experience in taking a major role in designing two new, mixed-income neighborhoods in Holyoke, MA (160 units of housing) and Northampton, MA (200+ units of housing planned) have contributed a great deal to his ability to work out practical solutions to many of the challenges faced by developers of affordable urban housing. Marc earned a Bachelor of Science in Solar Design in 1981 from the University of New York, New Paltz where he was instrumental in obtaining a Federal Department of Energy Prototype Housing Award and Grant. He earned his Master of Architecture from the University of Colorado in 1985. He is a licensed architect in Massachusetts and is a LEED certified professional. Marc began working with Dietz & Company in 1990 after working for several architecture firms in Massachusetts and Colorado.

Eduardo Suarez
Founder

ECHO for Sustainable Development

Wellspring Presenter

Let's build regional assets to create a sustainable future!

Executive Director ECHO for Sustainable Development, a collaborative, dedicated to generating green jobs, capacity building & leadership development (Present). Coordinator HPN a consortia of Five Colleges and the Holyoke – COPC grant ('06-'08) Project Director: AccessHolyoke Partnership built 14 Community Technology Centers providing access and education in low-income communities ('01-'04). Supervisor of Public Health: NYC Department of Health ('92 – '01). Community Organizer: Community Service Society of New York ('90 – '92). Founder member: ECHO for Sustainable Development, Inc., advocating for waterfront access and technology training in low-income communities in Northern Manhattan ('96 – '01). Founding member: Neighborhood Trust Federal

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Credit Union, ('95 – '01). Founding member: (NMHAG), which created 7 Ambulatory Care Network Clinics Northern Manhattan ('84 – '96).

Education: Nassau Community College ('79-'81). New School for Social Research ('87-'88) Columbia University, Charles H. Revson Fellow on the Future of New York ('95-'96) UMass-Amherst (UWW).

Larry Union

President and Chief Executive Officer

Northeast Biodiesel Company

Speaker, Invest in our Future

Lawrence G. Union, Jr. is currently the President and CEO for Northeast Biodiesel Company, LLC of Greenfield, MA. Prior to joining Northeast Biodiesel Mr. Union was the CEO for the Connecticut Energy Cooperative, Inc. of Hartford , CT where he directed the introduction of the first retail "green" power offering in the northeast. His innovative, cooperative marketing programs signed on over 13,000 consumers, businesses, municipalities and major educational institutions for the energy product and service offerings of this CT co-op. Additionally, Mr. Union was the President of Co-op Fuels, LLC the heating oil affiliate of the Connecticut Energy Co-op. Mr. Union has over 25 years of engineering and management experience in the fields of technology and energy. Mr. Union holds a degree in Mechanical Engineering from General Motors Institute in Flint , MI and a MBA in Finance from the Darden School of Business at the University of Virginia .

Dhandapani "DV" Venkataraman

Associate Professor of Chemistry

UMass Amherst Fueling the Future Center, a National Science Foundation Center for Chemical Innovation

Wellspring Presenter

Professor Venkataraman's work is in the forefront of renewable energy research, concerning the molecular design of materials that will be the foundation of next-generation energy harvesting technologies.

B.Sc., 1989, University of Madras; M.Sc., 1991, Indian Institute of Technology;

Ph.D., 1996, University of Illinois

Dhandapani "DV" Venkataraman's Wellspring Presentation Summary: The molecular design of materials that will be the foundation of next-generation energy harvesting technologies.

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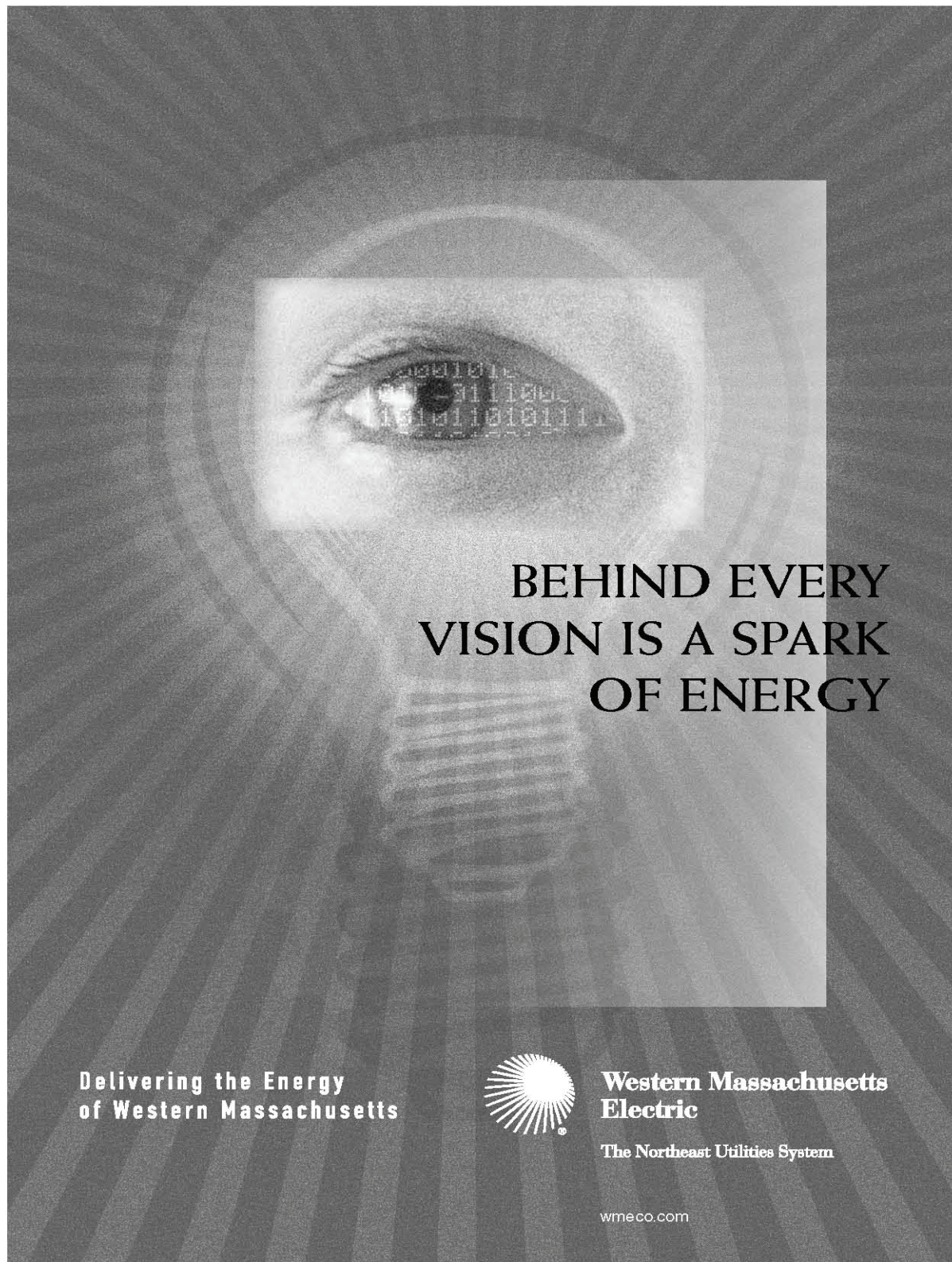
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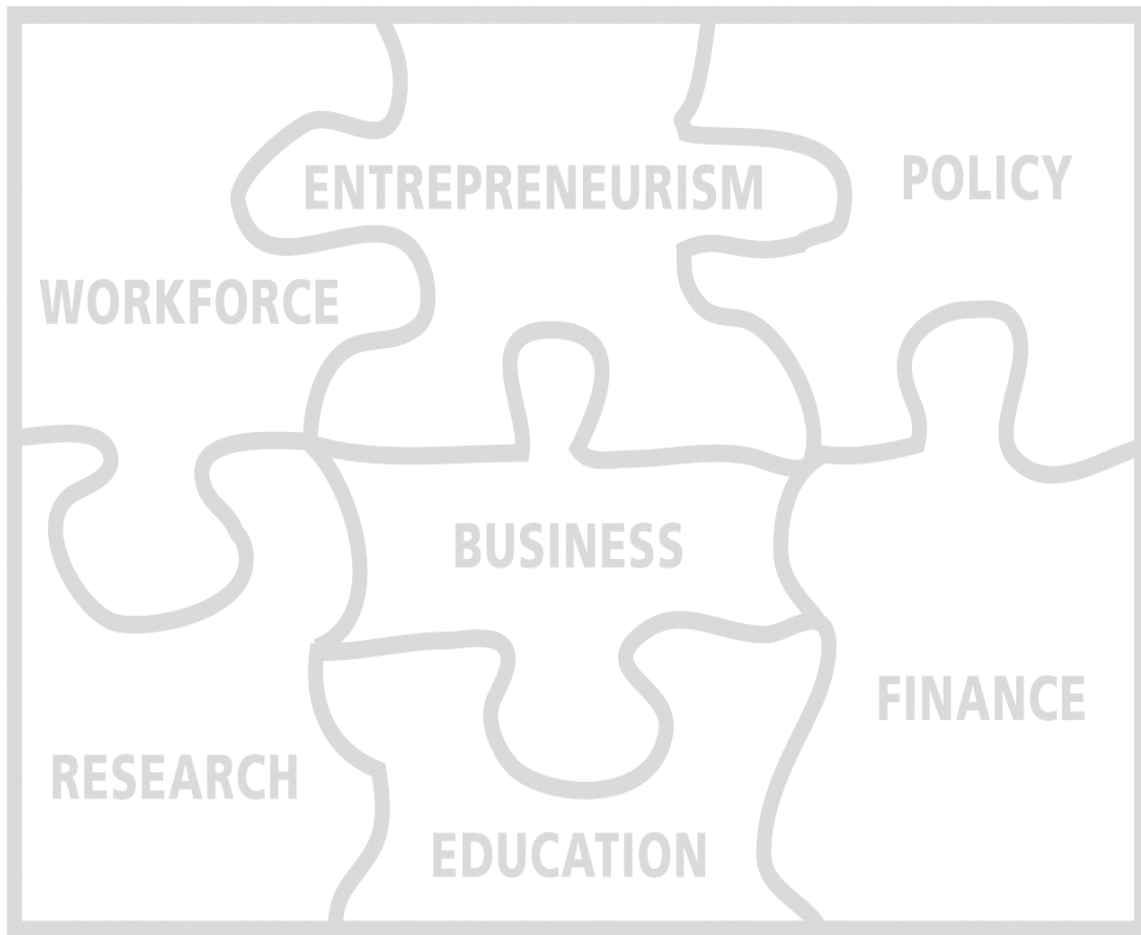


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Pioneer Valley Clean Energy Plan



Executive Summary



January 2008

Prepared by the Pioneer Valley Planning Commission and
Franklin Regional Council of Governments in collaboration with the
Pioneer Valley Renewable Energy Collaborative

Funding assistance provided by the Renewable Energy Trust
of the Massachusetts Technology Collaborative

**The executive summary, plan, and appendices are available at
www.pvpc.org and www.frcog.org**

Acknowledgements

Many people have been working on this plan for the last three years. We wish to thank every one who helped. Some people conducted research, while others analyzed data. Many people reviewed draft chapters of the plan and participated in the development of elements comprising it. People came to educational sessions, shared their ideas on-line or engaged in on-the-ground efforts. Some volunteers went the extra mile. These people include Meleah Geertsma, Kate Neuner, Patricia Canavan, Stan Swiercz, Brittany Smith, Tom Murray, David Celata, Robert Rocheleau, and Co-op Power staff. Without their work, we would not have made as much progress with this plan as we did.

We especially want to thank all the people in the Pioneer Valley Renewable Energy Collaborative for their many hours spent in meetings, in person, online and on the phone. They helped us all to understand more deeply our dependence on petroleum and nuclear-based energy, our need to highlight efficiency, the possibilities and limitations of wind and biomass, and the need for focusing on clean or carbon-neutral energy. In short, they helped us to recognize the opportunity represented in our collective efforts here in the Valley and the possibility that by working in partnerships we can find a better way of relating to the earth through our collective and individual energy choices. They are:

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Executive Summary

The Pioneer Valley Clean Energy Plan seeks a future where we minimize our impact on the earth's climate through the efficient use and generation of energy—energy that is safe, clean, ample, and helps sustain the economy. The Clean Energy Plan is part of a larger effort in the Pioneer Valley to create an ecologically sustainable region¹. This plan offers a path to a clean energy future, which will need to be implemented by communities, businesses, institutions, and even individuals, in their homes, backyards, businesses, and municipalities.

The Pioneer Valley Planning Commission initiated this planning process in 2003 by analyzing local barriers to the siting of clean energy projects in the Pioneer Valley and inventorying clean energy efforts underway². This analysis and inventory highlighted the need for a regional strategic energy plan for the Pioneer Valley. In 2005, the Pioneer Valley Planning Commission and the Franklin Regional Council of Governments secured funding from the Massachusetts Technology Collaborative to develop a clean energy plan for the region.

To help formulate this clean energy plan, project staff created an advisory committee known as the Pioneer Valley Renewable Energy Collaborative. Members were recruited from industry, planning, education, municipal governance, the not-for-profit sector, and the general public. This committee worked in conjunction with the Pioneer Valley Planning Commission and the Franklin Regional Council of Governments staff and volunteers to analyze the energy situation in the Pioneer Valley and to propose a path to a clean and safe energy future. Methods for this effort included data collection, research and analysis, education, surveys, stakeholder analysis, and participatory planning. Details on the methods used to develop the plan are in the Appendix. In addition, we developed a clean energy primer that is also included in the Appendix.

More than 900 people helped to develop this plan in a very participatory planning process facilitated

between October 2006 and July 2007. The participatory planning process included:

- Public outreach and on-line public survey.
- On-line targeted surveys with email follow-up of municipal planning boards, public works and planning staff, and town administrators.
- Stakeholder interviews, educational sessions, workshops and conferences.
- An online planning process held between October and November 2006 with more than 300 people participating that developed the guiding principles, goals, project siting guidelines, and implementation strategies.
- Three in-person hearings with 60 people held in October 2006 (one in each of the three counties addressed in the plan).
- A day-long forum in April, 2007.
- An online survey and forum to provide feedback on the first draft of the Clean Energy Plan with more than 900 people participating from April to July 2007.

We have produced a clean energy plan for the Pioneer Valley with four very ambitious goals.

Make no little plans; they have no magic to stir people's blood and probably themselves will not be realized. Make big plans; aim high in hope and work, remembering that a noble, logical diagram once recorded will never die, but long after we are gone will be a living thing, asserting itself with ever-growing insistency. Remember that our children and grandchildren are going to do things that would stagger us. Let your watchword be order and your beacon beauty.

Daniel Hudson Burnham (1846–1912)

Goals

Goal One: Reduce our region's energy consumption to 2000 levels by the end of 2009 and reduce that by 15 percent between 2010-2020.

Goal Two: Site sufficient new capacity to generate 214 million kilowatt hours of clean energy annually in the Pioneer Valley by the end of 2009 and another 440 million kilowatt hours by 2020.

Goal Three: Reduce our region's greenhouse gas emissions by 80 percent below year 2000 levels by 2050.

Goal Four: Create local jobs in the clean energy sector.

Self-determination has to mean that the leader is your individual gut, and heart, and mind or we're talking about power, again, and its rather well-known impurities. Who is really going to care whether you live or die and who is going to know the most intimate motivation for your laughter and your tears is the only person to be trusted to speak for you and to decide what you will or will not do.

June Jordan (b. 1939), U.S. poet, civil rights activist.
"Civil Wars," *Moving Towards Home: Political Essays* (1989).

Our plan does not identify the specific projects that will achieve our clean energy generating goals because local officials and state regulators are the people who will decide which projects will be sited and permitted. There is no widespread regional consensus about the kinds of renewable energy resources or the scale of facilities people want to have sited in the Valley, but there is regional consensus on the need to act. More public dialogue and education are needed to develop a shared understanding of precisely which renewable energy resources to site and where to site them. In the

coming years, a large number of new projects will be proposed that we have not heard about yet, and so we focused our limited time developing guidelines for decision making (Guiding Principles) which can be applied both to proposed projects and to the many projects our communities will consider in the future and (Selection Criteria) to help local decision-makers make the best choice for their community and the region. Finally, we conducted a preliminary build-out analysis of our region's clean energy capacity so local decision-makers know what is possible.

Our Clean Energy Guiding Principles (condensed):

In the Pioneer Valley, we want to support efforts that:

- Reduce energy consumption through conservation and efficiency, reduce dependence on fossil fuels, and nuclear energy and reduce greenhouse gases.
- Protect and improve the environment and the quality of life in the Pioneer Valley.
- Increase use of solar, wind, small hydro, clean biomass, and clean fuels technologies produced in community-scale, locally owned facilities that benefit all members of the community and create jobs.
- Focus government resources and policies on supporting the cleanest forms of energy and efficiency.
- Promote a comprehensive public transportation system while also working to make our communities more pedestrian and bicycle friendly and energy efficient.
- Encourage farmers and large land owners to preserve open space through development of energy production as an additional income stream.
- Make the Pioneer Valley one of the leaders in the country for reducing energy consumption and for producing clean energy and improving energy technology.

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Selection Criteria

In order to accomplish the goals of this plan, we need to build new renewable energy generating plants in the Pioneer Valley. The siting of new renewable energy plants is often controversial. Siting decisions are made locally, not at the regional level since the legacy of home rule is cherished throughout the Commonwealth of Massachusetts. To assist local decision makers, residents and project developers, we developed nine criteria to evaluate proposed clean energy projects. Preferred clean energy projects in the Valley should:

- Reduce fossil fuel and nuclear energy use.
- Involve a clean renewable technology—“clean” as defined by the Massachusetts Technology Collaborative – includes solar, wind, small hydro, and biomass-fueled facilities that meet all DEP requirements.
- Involve a community-scale facility i.e. promote community-ownership of renewable energy resources and support small businesses.
- Increase employment, gross sales, and patents generated by renewable energy-related businesses in the Pioneer Valley—to create local jobs with a living wage.
- Increase the affordability of clean energy for low and moderate-income households.
- Expand public transportation, car-sharing and car-pooling, pedestrian opportunities, bicycle use, alternative fuels, and zero or low emission vehicle use.
- Make it easier for farmers and forest landowners to maintain their open land due to lower energy costs and additional revenue streams.
- Maintain the water, air, vegetation, wildlife habitat, and other natural resources inherent to the site and the surrounding region.
- Be able to be implemented within two to three years because it has strong local support and is consistent with existing local and regional plans and has identified funding sources.

Implementation—Key Action Recommendations

Based on research, expert opinions, and results of a very dynamic public planning process, this plan endorses specific action items for immediate implementation by key target audiences, including: municipalities, energy committees, regional planning agencies, businesses, nonprofits/advocacy groups, educational institutions, individuals, and Massachusetts legislators and policy makers. For details on action recommendations, see the full plan or the target audience action sheets, available at www.pvpc.org and www.frcog.org. Action recommendations include:

- Consider hosting or owning a clean energy generating system or plant in your community/business/residence (financial assistance available from the Massachusetts Technology Collaborative) where resources and environmental conditions allow.
- Conduct energy audits and implement efficiency and conservation measures identified—municipalities may want to consider a performance contract with an energy service company (ESCO) to spread costs for energy efficiency over a longer term. Utility companies provide free audits or contact www.masssave.com.
- Initiate or support efforts by planning and building departments to develop and adopt bylaws or ordinances to require or give incentives to encourage green buildings, energy efficiency, public transportation, clean fuels, efficient vehicles and sustainable development.
- Purchase clean energy.
- Join ICLEI-Local Governments for Sustainability and follow their process to develop and implement local climate action plans while also working to help implement the Massachusetts Climate Action plan.

This plan is only the beginning. Additional work is needed by all members of the Pioneer Valley community to implement this plan. The actions we all need to take to reduce energy use are clear and available. Funding to act is not always at hand, but together we can bring the resources we need to our region. We have thoroughly researched the different ways our region can achieve Goal Two (site 214 million kilowatt hours of clean energy production in the Pioneer Valley by the end of 2009 and another 440 million kilowatt hours by 2020), but now individual communities, homeowners and business owners must step up and either build, or allow to be built, clean energy generating facilities in their backyards. The project selection criteria and guiding principles clarify the kinds of projects we want here in the Pioneer Valley. Our region has more work to do to understand how we can implement the actions we know to be effective to reduce our energy use through conservation and efficiency, community planning, waste reduction, improved transportation infrastructure and improved local food systems. This plan identifies best practices others are pursuing in these areas, but we were not able to develop detailed plans for each area given time and resource constraints. We know that as facilities are planned, and as municipalities and individuals and organizations request energy audits and do their part to act on other plan recommendations, local jobs in the clean energy sector will grow. Details on best practices are included in the Appendix as is an annotated webliography and bibliography.

Energy Efficiency & Conservation Potential

The Northeast Energy Efficiency Partnerships Inc. (NEEP) has determined that investments in efficiency improvements over a ten-year time period in New England could result in savings of 28 percent of the total peak summer capacity and 37 percent of the capacity represented by plants using fossil fuels. If a 28 percent reduction is possible for all of New England, we believe a comparable reduction is also possible for the Pioneer Valley. The main "reservoirs"

"Future solutions would lie in the use of existing renewable energy technologies, greater efforts at energy efficiency and the dissemination of decentralized energy technologies and options"

From "energy {r}evolution: A BLUEPRINT FOR SOLVING GLOBAL WARMING," European Renewable Energy Council, p. 3

of economical efficiency potential are in lighting and heating in residential, commercial and industrial markets and in transportation efficiencies.

Industry: In the Pioneer Valley we can make our

industries more energy efficient through heat recovery, more efficient motors and drives, and the use of cogeneration (also called combined heat and power or CHP) systems that provide both heat and electricity.

Buildings: We can build new buildings that use less energy and improve the energy efficiency of existing buildings through different lighting, weatherization, different use of space, and better efficiency standards for building components and appliances.

Transportation: We can reduce our region's energy use by reducing our driving, making it easier for people to walk or bicycle, using lighter weight vehicles, car-pooling and car-sharing, public transit, improved aerodynamics in vehicles, and more efficient propulsion systems, such as hybrid engines.

Renewable Energy Potential in the Pioneer Valley

Because this is a regional plan that shows a path to a clean energy future for the 69 communities of the Pioneer Valley, we thought at one time that we might be able to identify projects, either planned or imagined, that would meet our clean energy goal of generating 214 million kilowatt hours of clean energy annually, with another 440 million kilowatt hours by 2020. However, due to a variety of factors mentioned previously, most notably home rule in Massachusetts and the fast pace of development in the clean energy sector, we do not presume to identify exactly how the region will meet its clean energy goal. We have, however, completed the research necessary to reassure Pioneer Valley residents and decision-makers that we do indeed have the renewable energy resources necessary to meet and even exceed our goals.

Wind: Compared to Berkshire, Worcester, and particularly the coastal counties, the three counties

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along the Connecticut River Valley do not have a plentiful wind resource. However, there are several areas that could host wind power projects, and a few communities are considering community-owned or sponsored wind turbines. In order to get a sense of scale, consider the example of four communities hosting projects of one to five full-scale turbines; in this example, the turbines could produce in the range of 40 million kilowatt hours per year, or about 5,600 households' worth of electricity.³

Landfill Gas: There are seven sites either currently producing or permitted to burn LFG for energy in the Pioneer Valley: two in Chicopee and one in Granby are functioning as of plan release (2008). Four more are in the works in the communities of Northampton, Westfield, Palmer and South Hadley. This means that all large landfills in the region have been (or are being) developed. As technology changes, it may become cost effective to develop the clean energy potential of smaller landfills.

Hydropower: According to a 1995 study prepared for the U.S. Department of Energy, "U.S. Hydropower Resource Assessment for Massachusetts", by the Idaho National Engineering Laboratory that used modeling software, there are at least 130 sites in Massachusetts river basins that have the potential to generate hydropower. The basin with the most undeveloped hydropower potential is the Connecticut River with 68 sites and an estimated capacity of 294 million kilowatt hours per year⁴. The Connecticut River Basin total is driven by three sites that have more than half the basin's total undeveloped potential. Over half of the estimated potential capacity across the entire state comes from sites that are currently undeveloped where impoundments might need to be constructed.

Biomass: The Sustainable Forest Bioenergy Initiative (SFBI) is an effort by the Department of Conservation and Recreation and the Division of Energy Resources to facilitate the development of biomass markets in Massachusetts. Draft results of the SFBI work suggest that roughly 1,116 - 1,314 million kilowatt hours of biomass energy could be developed in the western half of Massachusetts. This biomass build out in Massachusetts and the Pioneer Valley could include large power plants between 25 and 50 MW, combined heat and power plants between 5 and 10 MW, and numerous small 1-5 MMBtu/hr heat-only systems.

Biofuels: Biofuels are liquid or gas fuels made from organic fats and oils from plants and animals. Biofuels can be used for transportation or heating. Sugar cane, sugar beets, corn, soy beans, oil seeds, switch grass, and wood are some of the common plant sources of biomass that can be made into biofuels. Manure and fat are typical animal sources of biomass that can be made into biofuels. At this time, we are unable to project the amount of biofuels that that could be generated in the Pioneer Valley, but we do know that biofuels will play a role in our clean energy transition.

Solar PV: The estimated build out of clean energy from solar PV is limited only by the amount of appropriately oriented south-facing roof and other flat space available.

Solar Hot Water: Like solar photovoltaics, there is no measurable limit on the amount of energy we can generate from solar hot water in the Pioneer Valley. But unlike solar photovoltaics, solar hot water is relatively affordable. Solar hot water heating equipment can pay for itself in 5- 10 years and provide free hot water thereafter. Solar water heaters have a life span of 30-40 years. In most cases the solar collectors will outlast the roof on which they are placed.

For a copy of the complete plan and appendices, go to www.pvpc.org or www.frcog.org or call Catherine Miller at 413/781-6045.

¹ www.pvsustain.com
for more information about regional sustainability efforts

² www.pvsustain.com
has inventory and regulatory barriers assessment

³ To estimate this number, multiply the following assumed numbers: (4 towns) x (average project size: 3 turbines) x (average turbine size: 1,500 kW) x (average capacity factor: 27%) x (availability: 95%) x (8,760 hrs/year) = 40,444,920 kWh/year. Divide that by the average Massachusetts household's annual consumption of 7,200 kWh/year to get the number of households served. For an introduction to the meaning behind these numbers, see RERL's community wind fact sheet "Capacity Factor, Intermittency, and what happens when the wind doesn't blow?" at this address: www.ceere.org/rerl/about_wind/

⁴ Based on a seasonal average capacity factor for hydropower of 0.4.

November 22, 2008
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Sustainability—Enough for All Forever

Art/Invention Contest

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<http://www.pvsustain.com/pages/artcontest.html>

Purpose: The goal of this contest is to stimulate thought and action on sustainability in the Pioneer Valley. *What does sustainability in the Pioneer Valley look like, sound like, feel like? How can it be represented? Is it best articulated through a device, or through dance, music, film, sculpture, or two-dimensional design? We invite you to show and tell us.*

Judges: ART: Hilary Price, Josh Simpson, Gina Beavers; Media/outreach: Chris (Monty) Belmonte, Rus Peotter, Kristen Beam; Sustainability: Daniel Ross, David Starr, John Majercek,

2008 Winner: Jane Beatrice Wegscheider

“A Table Set For Forever”



Winner of the 2008 Pioneer Valley Sustainability Network's "Art of Sustainability" contest

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Detail on Art work

"A Table Set For Forever" is a portable, multi-media, installation piece: a kind of permeable "room" that can be set up anywhere. The central visual motif is a table and six chairs. The table top is a garden-theme mosaic made of colored glass tiles and bits of broken plates (pique assiette technique). The mismatched ("recycled") wooden chairs are painted as blackboards, with questions related to sustainability in our region written on in colored chalk (and viewers are invited to contribute). Six free-standing curtain-like panels in portable frames are set up around the table. Each of the two-sided panels is made of a collage of seed-packets sewn together with images (both photographic and drawn/painted) and text derived from relevant literature and local community sources. The panels are set up around the table and chairs so that people can walk between and around them easily, in and out of the "room".

An essential part of the piece is that it involved the participation of many other people in its process. The artist, Jane Beatrice Wegscheider, sent out and distributed (in local businesses, libraries, etc.) written requests for participation in the sustainability dialogue, beginning with the question: "What does sustainability mean to you?" She solicited answers to these additional questions:

Do you feel motivated to live a more sustainable lifestyle? (and if so, what or who has motivated you?)
What are some of the things you do to live a more sustainable lifestyle?
What are some of the challenges of living a more sustainable lifestyle?
What ideas and solutions for sustainability have you considered?
(These could be dreams or inventions you have in your mind but haven't tried yet...or things you'd like to do but don't know how to yet.)
Do you have any questions that would challenge people to think about sustainability in a new way? (for example, "how much is enough?") And these answers informed the work.

The artist organized several dinner parties, featuring local food and great conversation about sustainability, as part of the development of the work of art. For each conversation, she brought together groups of six-10 people from varying segments of our communities to share their ideas and brainstorm further sustainability activism. These conversations were recorded and excerpts from them became the audio component of the installation, as well as source material for the seed-packet collage panels.

Jane Beatrice Wegscheider's basic premise is that dialogue/conversation/the sharing of ideas (especially person to person) is essential to sustainable activism. Sharing thoughts and ideas around a shared meal is a way to combine activism with community-building. In the conversation about sustainability, we are also talking about basic needs and resources, of which, food is one primary need.

Jane is convinced that small actions need to be honored along with bigger systemic efforts. People change and accept change in different ways. Her aesthetic is generally an "accessible" one. The seed-packet "curtain"/panels will show the significance of ALL actions, ideas, questions, etc. that collectively add up. Even on their own these panels will be a stimulating and informative visual discussion.

the table as metaphor
the table as place
the table as community, family, the future
the table shared
the table abundant
the table as an edible landscape

Jane used the pique assiette technique (broken plate mosaic), along with the garden theme, to refer to the past that is a part of us.

The chairs have questions painted on them to represent the challenges of joining the sustainability discussion/dialogue/effort.

The "walls"/ "curtains"/ panels are permeable to suggest visually that this is not a behind-closed-doors conversation. The seed packets are a literal metaphor: seeds produce multiples of themselves. They symbolize growth and potential.

The installation is purposely portable, each element breaking down into carry-able pieces so that it can more easily become part of various local environments/public spaces: farmer's markets, schools, outdoor cultural events, etc.

This installation is the first phase of this project. The second phase will involve developing the audio component further for web and radio and developing ways to use the installation to disseminate physical cards (for people to take with them) with ideas and information on them. (Jane imagines letter-pressed "information" on vegetable-shaped cards in bowls on the table.) The third phase will be the organization and facilitation of having the installation travel to schools, libraries, Farmers' markets and other public venues

Affiliate Organization Summaries



**Public outreach for today's event was provided in large part
by the following Clean Energy Connections Affiliates**

Clean Energy Connections The 1st Annual Conference and Opportunity Fair



The Massachusetts Farm Energy Program (MFEP) is a two-year statewide effort, bringing together federal, state, industry, and private support to streamline technical and financial assistance available to Massachusetts farmers for reducing their energy demand, increasing their profits, and reducing greenhouse gas emissions. Managed by the Berkshire-Pioneer Resource Conservation & Development Area (BPRC&D), the MFEP is a joint project of the Massachusetts Dept. of Agricultural Resources, the USDA-Natural Resources Conservation Service, Patriot Resource Conservation & Development Area and BPRC&D.

The MFEP is helping farmers determine what energy efficiency and renewable energy funding is most appropriate to their circumstances. The MFEP helps farmers access:

- The Massachusetts Farm Energy Discount Program of MDAR
- Electric and gas public utility energy conservation & efficiency programs
- The Massachusetts Technology Collaborative's Renewable Energy Trust Initiatives
- The USDA/Rural Development Value Added Producer Grant (VAPG) and Rural Energy for America Program (REAP)
- MDAR's Ag Environmental Enhancement Program (AEEP)

For more information go to the MFEP pages <http://www.berkshirepioneeracd.org/mfep/existing.php> The MFEP also seeks applications from farmers across Massachusetts interested in participating in the New Audits & Incentives Program. In this Phase of the program, the MFEP will make referrals to existing audit and incentive programs, provide "targeted" energy audits and/or renewable energy assessments, and provide financial incentives for implementation of audit recommendations. **Higher priority will be given to farmers with less access to other audits and incentives programs.** Go to <http://www.berkshirepioneeracd.org/mfep/energy.php> for complete information and to apply online. Or call 413-256-1607.



The Central Massachusetts Regional Employment Board (CMREB) is one of 16 Workforce Investment Boards throughout Massachusetts, charged with overseeing and implementing local workforce development initiatives. The CMREB serves Worcester and 37 surrounding communities in Central Massachusetts. The purpose of the CMREB is to develop a system that ensures individuals have the skills necessary to meet the needs of area employers. The CMREB is a volunteer body of diverse stakeholders responsible for policy, oversight and coordination of federal and state workforce development initiatives

and job training programs. Our Board is made up of individuals from the private sector, labor, education, community based organizations and a number of state agencies. A majority of Board members and the Board Chair are from the business community to help ensure we are employer-led and responsive to employer needs.

CMREB Goals

- Establish and promote workforce development policies that build the area's workforce development capacity and improve the social and economic life of the community.
- Forge collaborations among business, union, elected officials, government, and community groups to identify and close gaps in workforce skills and employer needs.
- Influence the design and performance of an integrated system that prepares youth for successful employment.



The Center for Ecological Technology (CET) makes green make sense - and makes it happen here. Our fifty staff members help residents, businesses and communities with energy conservation, renewable energy, recycling and reuse. We're a 32-year-old non-profit organization that provides

practical solutions that work for our community, economy and environment. Visit www.cetonline.org and www.restoreonline.org for more information.

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The Chicopee Chamber is a business member association created to improve the overall business climate by uniting, guiding, supporting and speaking for those engaged in business and industry, toward the advancement of economic and civic well-being for all citizens of the greater Chicopee area. It is dedicated to the advancement of the commercial, industrial, civic and general interests of the City of Chicopee and its trade area by fostering, encouraging and promoting a nonpartisan interest in the business and fiscal activities of government agencies as such activities may affect the membership of the Corporation. The Chicopee Chamber assures that the business community knows the benefits and services that it provides. It will advocate for and be the voice of the business community. It will provide training, accolade and visibility to its members through referrals, networking, and educational and recognition programs, to assure that membership is a symbol of credibility and integrity and that members are perceived as business leaders.



Co-op Power is a consumer-owned energy cooperative bringing sustainable energy and green jobs to Massachusetts and the northeast region. We're building a multi-racial, multi-class movement for a sustainable and just energy future. Our group purchasing programs help people save money on fuels, installations, and hundreds of products and services. Our barn-raising style solar hot water installations save people 40-50% - with neighbors helping neighbors. We're using our member equity and community-based business development resources to create new green jobs and green energy in our region. For details see www.cooppower.coop or call 877-266-7543 tollfree. Join today and bring Co-op Power to your community.



The *Economic Development Council of Western Massachusetts (EDC)* serves as the private, non-profit ambassador to businesses operating in or entering the region. The EDC aids companies with expansion, relocation and networking at no cost. We work to develop and enhance target industries, including Renewable Energy, by perusing incentive programs, promoting the local supply-chain and marketing the region's wealth of research and intellectual capital. Our mission is to deliver the services and business resources that enable companies to thrive in Western Massachusetts while improving the economy and quality of life through the creation of quality jobs and enhanced public and private investment.

The EDC provides free assistance with:

- Location of commercial and industrial real estate
 - Permitting assistance
 - Regional data
 - Legislative advocacy and advice
 - Assessments of your business needs
 - Information on tax incentives and grants
 - Workforce development services
 - Publicity of local business and economic accomplishments
 - Connecting area companies with local suppliers and industry peers
-



ECHO's overarching mission is to build community assets in a mutually beneficial relationship that is community driven for sustainable development, addressing socio-economic and environmental justice issues. ECHO intends to use our success as a template for challenged communities to adopt sustainable practices to generate workforce and entrepreneurship development. We recognize that not only are environmentally friendly businesses and policies the responsible paths for our future, but they are also the inevitable paradigm of our current and future generation of energy policy, both nationally and internationally.

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ECHO for Sustainable Development is working to build community assets by organizing cross-sectors in different communities of the Commonwealth around renewable energy, green jobs, and building strategic alliances.

We are dedicated to:

- Generate a “green jobs culture” and industry in Western Massachusetts.
- Build “Green Economy” capacity of our local workforce and industry through:
 - Apprenticeship programs,
 - Encourage entrepreneurship, and
 - Building community-worker owned enterprises.
- Create a leadership development program based on mutual learning practices with labor, community-based organizations, learning institutions, and business, to encourage a responsible, modern, participatory community process for sustainable development.

ECHO for Sustainable Development – Because Sustainable Development is Human Development



The Franklin Hampshire Regional Employment Board (FHREB) has a history of successful partnerships in different industry sectors over the past decade. The *Sustainable Practices in Construction Project* led by Greenfield Community College is the most recent partnership in a series that has included several in healthcare and manufacturing. With the help of a diverse set of partners including, but not limited to,

Greenfield Community College, the Franklin Hampshire Career Center, UMASS Workplace Education, the Division of Transitional Assistance, Massachusetts Rehabilitation Commission, and community organizations in addition to businesses themselves, we have helped and collaborated to conduct assessments;

develop proposals and secure funds for training; create business partnerships of smaller employers; implement recruitment strategies; design curriculum; provide career coaching; improve performance; and publicize and celebrate success. If you are a Franklin/Hampshire/North Quabbin clean energy, clean tech employer, please call us at the FHREB to share your ideas for a project. We look forward to assisting you to strengthen your business through quality workforce development.



Our vision is the evolution of responsible and sustainable businesses. We are currently developing a curriculum to train individuals in entrepreneurship with a concentration in socially responsible business practices that will begin at the high school level. The Gasoline Alley Foundation currently operates with a modest budget comprised of grant funding, rent from tenants, and support from its affiliate Meadowbrook Lane Capital, LLC. If you are interested in collaborating in our efforts please contact [Kirsten Bonanza](#). The Gasoline Alley Foundation believes job creation is the most effective

means of both economic and community development. In short, socially responsible business practices are the strongest economic model for sustainability. Consequently, we focus our efforts in socially responsible entrepreneurship education.



Greenfield Community College is a two-year institution of higher education with close ties to the Franklin/Hampshire county area and beyond. Our 24 Associate of Arts programs, 16 Associate of Science programs, and 12 Certificate programs reflect the needs of our community. We have created Certificate and Associate Degree programs in Renewable Energy/Energy Efficiency (RE/EE) that offer a range of courses which provide students with the knowledge and skills needed for entry- and intermediate- level employment

opportunities in the growing RE/EE field. For students already employed in the trades, they offer professional development and skill enhancement relevant to specific renewable energy/energy efficiency technologies, as well as a broader understanding of the scientific, economic and political context of the industry. The Core of our Main Campus building – in the context of a major renovation – is undergoing energy conservation, integrated building systems, and upgrades to the heating, ventilation, and air conditioning systems. We are working closely with MA DCAM and our architect to incorporate the most effective energy efficiency and renewable energy measures possible. In addition, GCC will soon construct an energy neutral greenhouse that will model the latest and most effective

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passive and active energy generating and conservation systems. GCC is taking a multilevel approach to sustainability, through credit and credit-free programming, workforce training, campus waste and energy efficiency management practices, citizen education and community collaboration. Each of these areas represents an ongoing work-in-progress as we increase our own knowledge, respond to business and community needs, and participate in emerging state and national initiatives.



The Greater Holyoke Chamber of Commerce is a 118-year-old organization founded to support the manufacturing and business base of the "first planned industrial city in America." Today, it is an organization intent on growing its economic base to create new jobs and prosperity for the community. As it did in the 19th century, the Chamber focuses on the economy, with priorities aptly placed on governmental affairs, education and training, and business development. "Grow Holyoke" was recently launched as an initiative to create public support for quality development. Under the Greater Holyoke Chamber Centennial Foundation, the organization has worked with partners for more than 20 years on a workforce development program aimed at "increasing the pool of qualified employees for Holyoke area companies." That effort has taken many forms, from job placement to adult literacy, with significant results. The Chamber and its partners played a major role in the creation of CareerPoint One-Stop Career Center 12 years ago. In 2005, as a key adult basic education facility was leaving the city, the Chamber established Holyoke Works. That affiliate continues to grow as the only employer-led workforce program of its kind in the Commonwealth. High on the Chamber's agenda is stimulating business activity for its members, offering year-round opportunities for accessing new customers.

HOLYOKE
COMMUNITY COLLEGE
Futures Inspired



The Home Builders Association of Western Massachusetts is a 500 member trade association made up of residential home builders, remodelers, and building affiliated companies. The association boundaries are the 4 most Western Counties of Massachusetts, the Association and its members are affiliated with the HBA of Massachusetts and National Association. The Association's mission is to promote member success through networking, community service, public policy, social and educational opportunities. The Association strives to be "The Local Resource" for Builders, remodelers and consumers for information on residential building and home ownership. The Home Builders Association of Western Massachusetts is the promoter and producer of the "Original Western Massachusetts Home and Garden Show" held on the grounds of the Eastern States Exposition during late March each year. The Association also produces the new Ideas for Living fall Home Show which recently completed its 2nd annual Show. The HBA prides itself in its community involvement and outreach. The Association has awarded more than \$250,000 in scholarships to local students. The Association and its members are also involved in many other charitable organizations including a major sponsor with the Red Cross Home Town Hero program, Habitat for Humanity, ramp projects for the handicapped and others.

Ignite Clean Energy Competition of the MIT Enterprise Forum of Cambridge

The Ignite Clean Energy Competition (ICE) is headed into its fifth year with the purpose of stimulating the growing clean energy industry. ICE provides start-up clean energy companies and entrepreneurs with: resources to develop business skills, networking opportunities with industry professionals and a chance to attract potential investors. ICE is not only a business plan competition, but an educational platform in which entrepreneurs can learn and improve over the course of the Competition. To learn more please visit our website: www.ignitecleanenergy.com

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Jobs with Justice is a nationwide coalition founded in 1987 to improve working people's standard of living, fight for job security, and protect workers' right to organize. In order to be successful, workers' rights struggles must be part of a larger campaign for economic and social justice. To that end, JwJ has created a national network of local coalitions that connect labor, community, faith-based, and student organizations. Please visit www.jwj.org. Jobs with Justice organizes solidarity. Members pledge: "During the next year, I will be there at least five times for someone else's fight, as well as my own. If enough of us are there, we'll all start winning." Western Mass "J with J" was founded June 5, 1993. It is now a coalition of 56 organizations. We organize solidarity for unions and community groups doing grass-roots organizing by posting to email lists; maintaining and activating phone, fax, and email mobilization lists; and working with Street Heat, the AFL-CIO's mobilization project. WMJwJ fosters the "Green Economy Working Group" of advocates for a Green Economy which serves local communities; guarantees workers' rights to organize; and promotes community-owned sustainable projects - <http://lists.gaiahost.coop/mailman/listinfo/greenwork>. We collect membership dues and donations so that we may employ an Organizer. Donations to the Warren J. Plaut Charitable Trust Jobs with Justice Fund, 640 Page Blvd #101, Springfield MA 01104, are tax-deductible.



The Massachusetts Small Business Development Center (MSBDC) Network provides one-to-one, free, comprehensive and confidential business advising services focusing on business growth and strategies, financing and loan assistance, as well as strategic marketing and operational analysis. The statewide program has three integrated product lines: Business Advisory Services, Government Contracting and International Trade/Export Services. Services are delivered through a statewide network of skilled

professionals supported by an extensive network of federal, state, educational and private sector partners. In addition, low cost training programs are offered across the state targeted to the needs of small business. The MSBDC Network is a partnership of the United States Small Business Administration, the Massachusetts Executive Office of Housing and Economic Development and a consortium of institutions of higher education led by the Isenberg School of Management at the University of Massachusetts/Amherst and includes Clark University, Salem State College, University of Massachusetts/Boston and University of Massachusetts/Dartmouth.



The Massachusetts Technology Transfer Center was created in 2004 as a program in the Massachusetts Economic Stimulus Bill. Its goal is to support technology transfer activities from public and private research institutions to companies in Massachusetts. To achieve this goal, the Center works with

technology transfer offices at Massachusetts research institutions; faculty, researchers, and students who have commercially promising ideas; and companies across the Commonwealth. The Center provides advice, coaching, and connections to new companies using technology transferred from Massachusetts research institutions. This includes one-on-one coaching for faculty/researchers with technology to spin off into new ventures. The Center helps first-time entrepreneurs identify initial management and service providers, assists them in developing business plans and investor pitches, matches them with business school students who will perform market analysis on new technologies, introduces them to appropriate investors, and identifies potential incubator space. Inventors have an opportunity to present at The Platform, a roundtable of industry experts, to discuss possible commercialization and funding paths. The Center is also co-producer of the annual **Conference on Clean Energy: Financing and Partnering for Emerging Businesses**. Join hundreds of entrepreneurs, investors and other stakeholders in the clean energy community as they converge on Boston for the premier regional event showcasing clean energy startup companies during Clean Energy Week. Complete information: www.greenovationconference.com



The New England Clean Energy Council's mission is to accelerate New England's clean energy economy to global leadership by building an active community of stakeholders and a world-class cluster of clean energy companies. The Council represents a diverse set of stakeholders, including clean energy companies, venture investors, major financial institutions, local universities and colleges, industry associations, area utilities, labor and large commercial end-users. The Council's ranks include 50 clean energy CEOs, representatives from most of the State's top

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10 law firms, and partners from over a dozen of the top New England venture capital firms (with a total of over \$8 billion under management). Working with our stakeholders, we develop and execute a wide array of programs in five key focus areas: Innovation, Growth, Education and Training, Adoption, & Policy. The Council believes that our future depends upon synergistic collaborations among the diverse segments of the clean energy cluster and a foundation of sound regional, national, and global energy policy that encourages the development and deployment of clean energy solutions. With such collaborations and policy foundation in place, it is the Council's belief that our region, with its considerable innovation assets, can leverage the power of free markets to become a leading provider of clean energy solutions to the global marketplace, while creating a powerful economic engine for New England, capable of generating tens of many thousands of new jobs in the coming decade and beyond.



Nuestras Raíces is a grassroots organization that promotes sustainable development in Holyoke, MA through projects relating to food, agriculture and the environment. We have community gardens, immigrant beginning farmer training and incubation programs, nationally-recognized youth development programs, sustainable enterprise development programs, community-led policy on councils, all growing from the culture and assets of the low-income, primarily Latino, community of Holyoke



Pioneer Valley Local First is an all volunteer run organization dedicated to promoting locally owned, independent businesses here in Western Mass. and to encourage business owners to be socially, locally and environmentally responsible. Please visit our site at pvLocalFirst.org



The Pioneer Valley Planning Commission (PVPC) is the legally designated regional planning agency for the Pioneer Valley region in Western Massachusetts. PVPC was organized in 1962 under Massachusetts enabling legislation to serve a planning district comprising 43 member cities and towns and more than 600,000 residents. Our Mission is to preserve and enhance the quality of life for its individual member communities and for the region as a whole by:

- Working to develop policies, programs, and projects that support public and private efforts throughout the region to resolve issues, solve problems, meet needs, and exploit opportunities

whenever and wherever such efforts can benefit from sound regional planning.

- Serving as an advocate for the regional community as needs and circumstances dictate.
 - Engaging an open and broadly participatory planning process solidly grounded in ethical principles and a commitment to dedicated, high-quality public service.
-



Founded by a University of Massachusetts student in 2008, Pioneer Valley Renewable Energy Association is a not for profit entity dedicated to the furtherance of renewable energy usage throughout the Pioneer Valley and beyond. We aim to implement renewable energy projects in the public sphere, foment favorable governmental conditions for anyone interested in investing in renewable energy projects, and educate all people on the importance of renewable energy and sustainability. Furthermore, we are a neutral resource for the public to consult before making a renewable energy purchase. Our hallmark project is the off-grid farm that we intend to build in the 5 college area for folks interested in more than just reading about renewable energy and actually living it.

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The Regional Employment Board of Hampden County, Inc. (REB) is a business-led, non-profit corporation established by state and federal legislation and supported by local business, education, and labor leaders as the primary policy-making authority in developing workforce skills. Our only business is workforce development. In partnership with government, business, labor and education and training providers, we coordinate, fund and oversee all the region's publicly funded worker training and employee placement programs



RideBuzz.org is a non-profit community-driven rideshare program based in the Pioneer Valley, MA. Ridesharing can help workers access jobs in a more environmentally responsible and financially sustainable way by sharing costs and resources. RideBuzz operates www.RideBuzz.org, which is a free online ridesharing tool that helps people connect to share rides, and works with organizations to launch Rideshare Groups (Networks) for their constituents. RideBuzz is committed to increasing the use of rideshares, which builds stronger communities; drastically reduces fuel consumption; and stimulates local economies. Through this community-enriching initiative, RideBuzz is increasing access to energy efficient transportation options that help under-served communities (i.e. low-income, elderly, disabled, immigrant, non-licensure populations, and students). This is a unique and innovative program that is endorsed by Co-op Power, CET, Hitchcock Center for the Environment, Highland Valley Elder Services, Riverside Industries, Mayor Higgins (Northampton), ServiceNet, PV



The Regional Technology Corporation is the market-driven catalyst for development and growth of technology-based industries in Western Massachusetts and the Knowledge Corridor. In affiliation with the Western Mass Economic Development Council, the RTC serves to coordinate and manage the region's technology economic development strategy as it relates to business development, attraction, and creation. www.rtccentral.com.



"*Sea Change Radio* covers the positive solutions on transforming to a sustainable economy and society. A half-hour weekly program, *Sea Change* features news, interviews with the likes of Paul Hawken, Hazel Henderson, John Elkington, Frances Moore Lappé, and commentaries from Human Rights Watch, Business Ethics Network members such as Rainforest Action Network and Natural Resources Defense Council, and Green America (formerly Co-op America.) *Sea Change* is the new name of *Corporate Watchdog Radio*, which is nationally syndicated on 17 Pacifica and independent community radio stations and podcasts to a global audience of sustainability professionals and enthusiasts. *Sea Change* is co-hosted/produced by Bill Baue, who has written on sustainability for the United Nations, Worldwatch Institute, *The Economist*, and Wal-Mart, and Francesca Rheannon, who is an award-winning radio producer, founded a Latino community organization recognized by Ashoka for social entrepreneurship (Nuestras Raices), and worked over a decade in environmental health."



**Springfield Technical
Community College**

Photovoltaic Practitioner Certificate Program

The Center for Business and Technology conducts this 60-hour program designed for Architects, Engineers, Licensed Electricians, Journeyman Electrician students, General Contractors and

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those interested in developing a career in Photovoltaics to prepare for the Entry Level Certificate of Knowledge Exam of the North American Board of Certified Energy Practitioners (NABCEP). The course instructor, Michael Kocsmiersky, who has many years of experience in the field and guest lecturers from the Utility and PV industry will discuss grid capacity interaction and PV component development. The current program was full long before the start date and the next program will begin on February 2, 2009. A detailed schedule and complete details on this program are available at <http://cbt.stcc.edu/descriptions/ztec-018.asp>



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Names and Affiliations of CEC attendees



Attendee List as of November 16, 2008

Clean Energy Connections

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Adam Marks

Aclara Software

--

David Wright

Aeronautica Wind Power

--

Jim Lescault

Amherst Cable Television

--

Cynthia Wildfire

Amherst College

--

Linda Malik

Antioch New England Graduate School

--

Preston Alexander

Antioch University - New England

--

Elli Caldwell

Antioch University New England

--

Elizabeth Dowling

Antioch University New England

--

Elizabeth Meserve

Antioch University New England

--

Anthony Sarkis

Antioch University New England

--

David Eggleton

Applied Ecologies

--

Peter Feroli

Applied Proactive Technologies, Inc.

--

Amy Zuckerman

A-Z International

--

Tammy Phantika Bamrungsuk

Babson Collee

--

Matt Bard

Babson College

--

Gautam Tambe

BABSON COLLEGE

--

Brian Lapseritis

Babson College Energy & Environmental Club

--

Karen Ribeiro

Bank of Western Mass

--

Diane Ranaldi

Bay Path College

--

Michael Konstan

Belchertown Land Trust

--

Carolyn Lehan

Berkshire Management Group

--

Michael Lehan

Berkshire Management Group

--

Darlene Monds

Berkshire-Pioneer Res. Cons. & Dev. Area

--

Sean Jeffords

Beyond Green Construction

--

Christina Dietrich

BlueWave Strategies

--

Fred Bohn

Bohn Landscaping

--

Dariusz Raczkowski

Bond Brothers, Inc.

--

Irene Fradet

Boston Architectural College/also GCC

--

Andres Gurovich

Boston University

--

Steph Burton

BPVS - Berkshire Photovoltaic Services

--

Christopher Kilfoyle

BPVS - Berkshire Photovoltaic Services

--

Katherine Prum

Brandeis International Business School

--

Clay Schofield

Cape Cod Commission

--

Richard Lawrence

Cape Cod Community College

--

Daniel Dray

Cape Cod Economic Development Council

--

Bracken Hendricks

Center for American Progress

--

Peggy MacLeod

Center for Ecological Technology

--

Beth Paulson

Center for Ecological Technology

--

John Majercak

Center for Ecological Technology/ReStore

--

David Morf

Center for Semantic Excellence

--

Chris Martenson

chrismartenson.com

--

Matthew Bruce

City of Boston, Office of Jobs and Community Services

--

Michael Tautznik

City of Easthampton

--

Katie Connolly

City to City Boston

--

Elizabeth Bullock

Clark University

--

Paul Gregory

Clean Energy Partners

--

Darren Jones

Co-op Power

--

Steve Miss

Crystal Car Care

--

Cindy Esposito

CSRwire

--

Ali Cirpan

Department of Polymer Science & Engineering, University of M

--

Paul Davis

Dietz & Company Architects, Inc.

--

Marc Sternic

Dietz and Company Architects

--

David Marley

Diversified Construction

--

Phil Giudice

DOER

--

Doug Snyder

DSGreenBuilding

--

Michael Garjian

E2M

--

Emily Laine

Earthfoods UMASS Amherst

--

Peter Gumpert

EarthSource Energy Solutions, Inc.

--

Eduardo Suarez

Echo for Sustainable Development

--

Eduardo Suárez

Echo for Sustainable Development

--

Daniel Bosley

Economic Development

--

Paul Tangredi

ECS

--

Randy Emerson

Emerson Financial Services/Emerson Capital

--

Pat Amtzen

Energy Federation, Inc

--

Brad Steele

Energy Federation, Inc

--

Sander Cohan

ESAI

--

Daryl Beck

Evergreen Motors, LLC

--

Shelly Beck

Evergreen Motors, LLC

--

Michael Anthony

EWS Plumbing & Heating

--

Peter Rothstein

Flagship Ventures

--

John Waite

Franklin County CDC

--

Patricia Crosby

Franklin Hampshire Regional Employment Board & Career Center

--

Alex Risley-Schroeder

Franklin Hampshire Reg'l Employment Board & Career Ctr

--

Melissa Adams

Franklin Regional Council of Governments

--

Martin Sachs

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Fraunhofer CSE

--

Liliano Granaudo

FutureWorks

--

Rexene Picard

FutureWorks

--

Kirsten Bonanza

Gasoline Alley Foundation

--

Bryanna Glod

Genzyme Corporation

--

Camille Tuason Mata

Goddard College/ The
ECOPlanning Institute

--

Rebecca Golden

Golden Cordial Company

--

Kim Grassfield

Grassfield Designs

--

Bridget Alexander

Greater New Bedford Workforce
Investment Board, Inc.

--

Ruth Von Goeler

GREEN Northampton

--

Ron Feldman

Greendustry Park

--

Eric Fogg

Greendustry Park

--

John Laux

Greendustry Park

--

Kevin Doyle

GreenEconomy

--

Steve Roberto

Greenfield Community College

--

Nancy Bair

Greenfield Community College

--

Kelley Fike

Greenfield Community College

--

Teresa Jones

Greenfield Community College

--

Michele Novak

Greenfield Community College

--

Steven O'Halloran

Greenfield Community College

--

Bob Pura

Greenfield Community College

--

Wendy Marsden

Greenfield District Heating

--

Beth Adams

Greening Greenfield Energy
Committee

--

Heather McMann

Groundwork Lawrence

--

Leonard Perrault

H.B. Smith Company

--

Larry Martin

Hampden Regional Employment
Board

--

Bill Ward

Hampden Regional Employment
Board

--

Shelley Seymour

Hampshire Regional High
School and Crystal Car Care

--

Gabriel Turner

Harvard Business School

--

Michael Paszek

Hatfield Redevelopment
Authority

--

Keith Benoit

Holyoke Community College

--

Jeff Hayden

Holyoke Community College

--

Theresa Howard

Holyoke Community College

--

Eric Larivee

Holyoke Community College

--

Larry Bay

Holyoke Works

--

Murray Fanning

Hoppe Tool

--

Robert Brandt

Ignite Clean Energy Competition

--

Ryan Donovan

Ignite Clean Energy Competition

--

Liz Feeley

Interiors by Design, LLC

--

Mark Kuenzel

Int'l Brotherhood of Electrical
Workers

--

Bob Wilson

Int'l Brotherhood of Electrical
Workers Local 7

--

Linda LaDuc

Isenberg School of Management

--

Dennis Morin Jr.

Isenberg School of Management,
UMASS Amherst

--

Michael O'Connor

LegalWORKS

--

Edward Lagoy

LENOX, American Saw

--

Cody Torn

LocalGreenie.org

--

Joseph Steig

Long River Ventures

--

Mario Cardinale

LPM Services Inc

--

Tom Lessard

LPM Services Inc

--

Liliya Pantus

Lutheran Social Services

--

Val Conti

MA Small Business
Development Center

--

Marybeth Campbell

MA Technology Collaborative,
Renewable Energy Trust

--

Mark Macallister

Macallister Building, LLC.

--

Kalia Lydgate

Marion Institute/MA Green Jobs
Coalition

--

Ralph Meima

Marlboro College

--

Alec Koumjian

Marlboro College

--

Melinda Pellerin-Duck

Massachusetts Career
Development Institute, Inc.

--

Tim Sneed

Massachusetts Career
Development Institute, Inc.

--

Peggy Bushey

Massachusetts Municipal
Wholesale Electric Company

--

Ed Kaczinski

Massachusetts Municipal
Wholesale Electric Company

--

Diane Randall

Massachusetts Small Business
Development Center Network

--

Dawn Creighton

MassLive.com

--

Sean Anderson

MassMutual

--

David Brown

MassMutual

--

Linda Plano

MassTech Transfer Center

--

Pamela Kimball

Mount Grace Land Conservation
Trust/GCC student

--

Yiting Wang

Mount Holyoke College

--

Daniel Moore

NAI Samuel D. Plotkin &
Assoc., Inc.

--

Evan Plotkin

NAI Samuel D. Plotkin &
Assoc., Inc.

--

Matthew Stanberry

Navigant Consulting

--

Nick d'Arbeloff

NECEC

--

Sonia Berte

NEW ENGLAND FARM
WORKERS COUNCIL

--

David Paulflores

New England Farm Workers
Council

--

Karla Franco

New Generation Energy

--

Chuck Lewin

New Generation Energy

--

Clean Energy Connections

The 1st Annual Conference and Opportunity Fair

Larry Union
Northeast Biodiesel/Co-op Power
--

Daniel Ross
Nuestras Raices
--

Carlos Vega
Nueva Esperanza
--

Joan Grenier
Odyssey Bookshop
--

Todd Lee
Office of Jobs and Community
Services; City of Boston
--

Darlotte Justice
Office of State Senator Candaras
--

Matt Page
Page Product Design
--

Pamela Howland
Partners for Green Building
--

Karen Buell
PeoplesBank
--

Tim Lilienthal
PICO National Network
--

Daniel Finn
Pioneer Valley Local First
--

Molly Jackson-Watts
Pioneer Valley Planning
Commission
--

Tony Dover
Pioneer Valley Planning
Commission
--

Catherine Miller
Pioneer Valley Planning
Commission
--

Lori Tanner
Pioneer Valley Planning
Commission
--

Eric Parker
Progressive Asset Management
--

Jane Wegscheider
PVPC- Sustainability Art Contest
--

Jeanne Comeau
Rebuilding Together
--

Ellen Bemben
Regional Technology
Corporation

--
Eric Greene
Renewable Energy Alliance
--

Jeff Brown
RideBuzz
--

Kevin Robinson
Robinson Realty Renovators
--

Paul Lipke
Room to Maneuver
--

Wendy Forbes
Rural Development, Inc.
--

William Sawyer
Sawyer Enterprises
--

John Blowers
Scapes Builders & Landscaping,
LLC
--

Wes Smith
Scapes Builders & Landscaping,
LLC
--

Stephen Veyser
School for International Training
--

Jeanie Forray
School of Business, Western
New England College
--

Ivan Beaulieu
SCORE
--

Bill Baue
SeaChange Radio
--

Francesca Rheannon
SeaChange Radio
--

Stephen Severin
Severin Design and Landscapes
--

Wendy Germain
Sirius Community
--

Hugh Harwell
Sirius Ecovillage Community
--

Norman Corigliano
Sandscape
--

Thomas Hartley
Smith College
--

Susannah Howe
Smith College
--

Mike Kocsmiersky
Solar Wrights
--

Pam Cargill
SolarWright
--

Nandan Ukidwe
Solutia Inc.
--

Robert Dickerman
Springfield Technical
Community College
--

Leona Ittleman
Springfield Technical
Community College
--

Dale Johnston
Springfield Technical
Community College
--

Alan Page
StepItUpBelchertown
--

Ilona Sherratt
Sun Energy
--

Jim Sherratt
Sun Energy
--

John Fabel
SunEthanol
--

Christopher Martin
SunHammer Green Build
--

Heather Moser
Sustainable Business network of
the Greater Boston Area
--

Amy Livingston
Sustainable Design Associates
--

Dave Wright
Sweet briar Design
--

Richard Kerver
Tataasset Solar
--

Joe Blotnick
Team New England Associates,
Inc.
--

Stephan Geysens
TechniArt Inc
--

Prakash Laufer
The Brick House Community
Resource Center
--

Mary Vogel
The Construction Institute

--
Rebecca Neher
The Trustees of Reservations
--

Amy McDonough
Tighe & Bond
--

Kim Boas
Town of Williamsburg
--

Silas Bauer
Tufts University
--

Kaiba White
Tufts University
--

Suzanne Pude
Tufts University/Monhegan, ME
Power District
--

Kevin McCarthy
UK Trade & Investment - British
Consulate Boston
--

Brian Amster
Umass
--

Ben Ewing
UMass
--

Josh Geyer
UMass
--

Ryan Harb
UMass
--

Hunter King
UMass
--

Julie Meyer
UMass
--

Robert Trask
UMass
--

Timothy Wright
UMass
--

Ryan Wallace
UMASS - LARP
--

Lee Badgett
UMass Amherst
--

Shemariah Blum-Evitts
UMass Amherst
--

Rachael Carlevale
Umass Amherst
--

Rachel Dugan

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

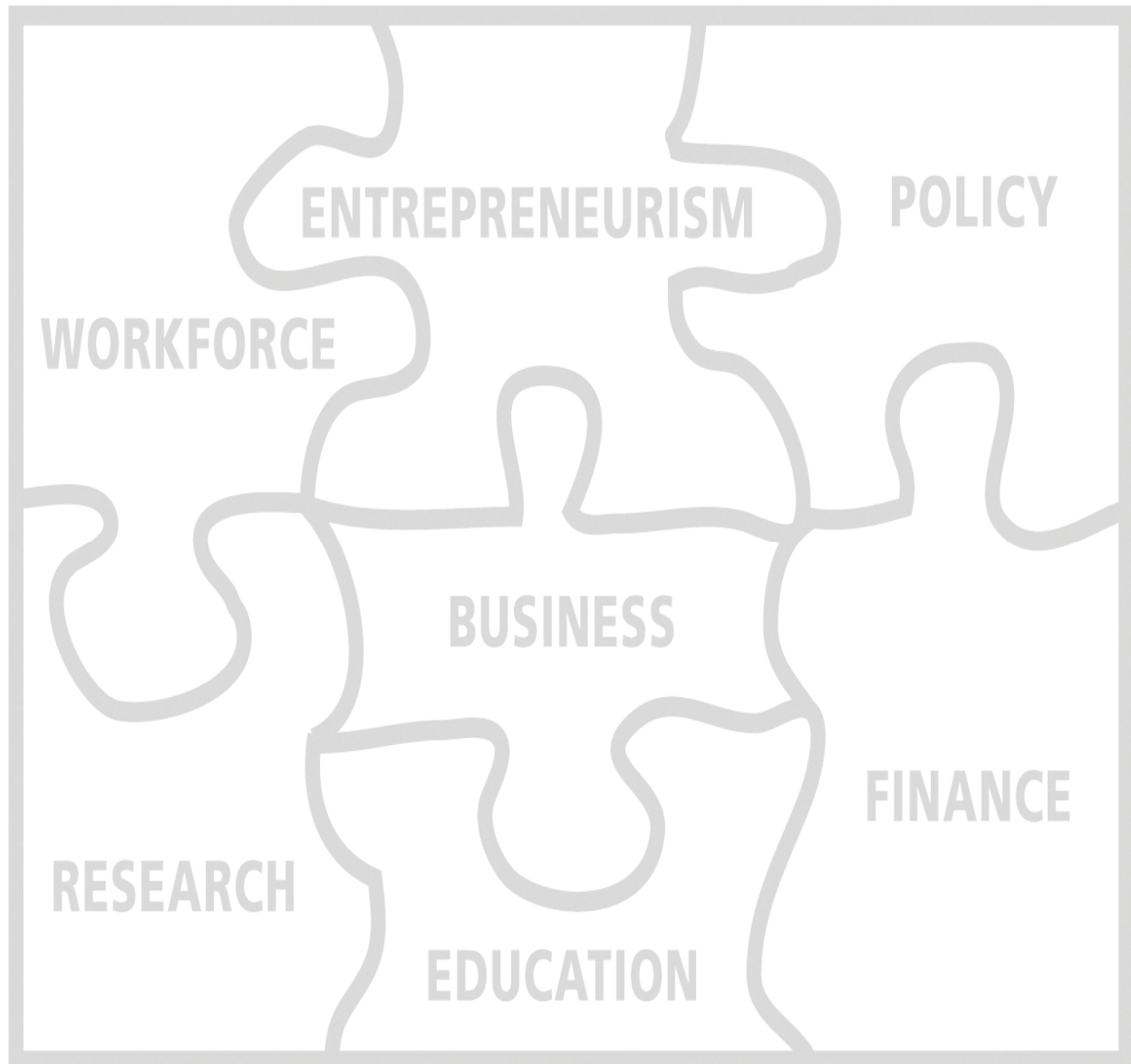
UMASS Amherst	Loren Walker	University of Massachusetts Wind Energy Center	--
--	UMass Amherst, RL&D	--	Eric Cassidy
Ginger Goldsbury	--	Sharon Fross	--
UMass Amherst	Michelle Wonsey	University of Massachusetts, Amherst	Margaret Chappuis
--	UMass Amherst, RL&D	--	--
Susanne Hale	--	Heather Bromberg	Andrea Chasen
UMass Amherst	Yung Chan	University of vermont	--
--	UMass of Amherst	--	Jaymie Chernoff
Karen Hayes	--	Tom Sturm	--
UMass Amherst	Jose-Luis Arroyo	Valley Advocate	John Cochran
--	UMass Wind Energy Center	--	--
Vincent Hohreiter	--	James Mell	Brian Cooper
UMass Amherst	Meltem Duran	Valley Opportunity Council	--
--	UMass Wind Energy Center	--	Sean Daly
Paul Kostecki	--	Sarah La Cour	--
UMass Amherst	Mary Knipe	W.D. Cows, Inc.	Michael DeChiara
--	UMass Wind Energy Center	--	--
Lynn Laliberte	--	Jon Weissman	Edwin Demara
UMass Amherst	Jody Lally	Western Mass Jobs with Justice	--
--	UMass Wind Energy Center	--	Vincent DeVito
David Limero	--	Bruce Clemens	--
UMass Amherst	Charles McClellan	Western New England College	Benjamin Downing
--	UMass Wind Energy Center	--	--
Josh Stoffel	--	Maegan Brooks	Craig Fasser
UMass Amherst	Richard Stein	Western New England College Law & Business	--
--	Univ. of Mass.	--	Eva Fierst
Eesha Williams	--	Sandy Thomas	John Fitzgerald
UMass Amherst	Jonathan Hymer	WGBY	--
--	Univ. of Mass. -Master of Regional Planning Program	--	Paul Fritz
Michael Wright	--	Currie Touloumtzis	--
UMass Amherst	David Marshall	Wheaton College	Jeff Gang
--	University of Massachusetts	--	--
Laura Martinique	--	William Keezer	Brandy Gao
UMass Amherst	Vanessa Adel	WJ Keezer Associates	--
--	University of Massachusetts	--	Jackie Gauger
Chelsea Hahn	--	John Walsh	--
UMass Amherst	Matthew Schoenberg	WMECO	Kevin Godbout
--	University of Massachusetts - Amherst	--	--
Jeffrey Napolitano	--	Karen Murdoch	Susan Hayes
UMass Amherst	Sorin Dan	Wolf Engineering / STCC	--
--	University of Massachusetts Amherst	--	William Henderson
Patrick Rondeau	--	Patricia Moss	--
UMass Amherst - Isenberg School of Mgmnt.	Jiansheng Feng	Work Springfield	Jane Herman
--	University of Massachusetts Amherst	--	--
Robert Pollin	--	Nancy Hazard	Leslie Hoffman
UMass Amherst - PERI	Caitlin Gould	WorldSustain	--
--	University of Massachusetts Amherst	--	Chuck Houy
Patrick Quinlan	--	Charlie Schwenger	--
UMass Amherst - RERL	Andrew Katcher	XCO2	Katherine Jones
--	University of Massachusetts Amherst	--	--
Craig Ruberti	--	Jessica Appleby	Mimi Kaplan
UMass Amherst EH&S	Ezra Kaufman	--	--
--	University of Massachusetts Amherst	Walter L. Bradley Jr.	Stephen Klisiewicz
Simi Hoque	--	--	--
UMass Amherst Green Buildings Program	Lynn DiTullio	Holly Brouker	Richard Kronenberg
--	--	--	--
Marla Michel	--	--	--
UMass Amherst, RL&D	--	--	--
--	--	--	--

Clean Energy Connections

The 1st Annual Conference and Opportunity Fair

James Lagoy	--	Pakpoom Sirihongthong	--
--	Terry Mullen	--	Ben Weil
Elizabeth Lambert	--	Elizabeth Slavkovsky	--
--	Kristin Neville	--	Jennifer Weymouth
Michael Lee	--	Christopher Smith	--
--	Paul Newlin	--	Debbie Whitney
Emerald Levick	--	William Stanton	--
--	William O'Gara	--	Hal Gillam
Nicholas Li	--	Taylor Steele	--
--	Sandy Papush	--	Kate Johannessen
Kevin Loos	--	Amy Stiles	--
--	Jon Phillips	--	Scott Laidlaw
Andrew MacBlane	--	Marc Stiles	--
--	Megan Reagon	--	Robert McIlwain
Sean Macnab	--	Sara Sullivan	--
--	Pierre Richard	--	Sarah Morgan
Sheila MacNab-Millar	--	Kathryn Swaim	--
--	Ben Riseman	--	George Rajkowski
Jonathan Margalit	--	Nicholas Tino	--
--	Alejandro Rivera	--	Evan Scott
Doug McDonald	--	Jeffery Titcomb	--
--	Ingrid Rivera	--	Martin Stokoe
Karl Meyer	--	Carrie Ward	--
--	Perry Schwarzer	--	Isaac Tirrell
Kevin Mihalec	--	Helen Weatherall	--
--	David Shelton	--	
Patricia Millington	--	Alan Webster	

Clean Energy Interests and Activities of CEC Attendees



Interests/Activities List as of November 16, 2008

Clean Energy Connections The 1st Annual Conference and Opportunity Fair

Attendees of the First Annual Clean Energy Connections Conference and Opportunity Fair were invited to share a few words about their clean energy interests and activities.
Here's some of what they had to say:

Adams, Beth

Interests: I had solar hot water on my house in Central Massachusetts in 1980. I am a believer in the least invasive type of renewable energy production possible. Right now I believe that is the synergistic combination of solar + geothermal & wind. I am interested in part to full-time work in marketing and sales of solar and/or geothermal heat pumps.

Activities: I am a weekly Radio programmer on the topics of celebrating nature and discussing "eco news" on the local community radio station WMCB-107.9LP FM in Greenfield.

I am also involved in the GGECOMMITTEE's film series and Town Hall Meeting in January to announce its Energy Audit results.

Adams, Melissa

Interests: Provide land use planning and clean energy planning and assistance to municipalities in Franklin County; help direct businesses to clean energy program and funding opportunities; have been involved in structuring Green Communities program with DOE.

Activities: FRCOG is in the process of implementing the first regional ESCO program; FRCOG developed the Pioneer Valley Clean Energy Plan with PVPC and other area organizations and residents; co-coordinate Pioneer Valley Clean Energy Collaborative with PVPC312

Adel, Vanessa

Interests:

I am researching green job initiatives

Alexander, Bridget

Interests: As the director of development for a workforce investment board, I am interested in workforce trends in the green job industries. Specifically, we would like to be out in front preparing a skilled workforce to fill positions in growing industries.

Activities: Recently, we received funding for a weatherization technician training class and plan to create a "Green Certified" pipeline to fill green collar jobs and obtain two-year and four-year degrees in STEM fields.

Website: www.gnbwib.org

Alexander, Preston

Interests: I have recently started my own "green" consulting firm -- Sustainable System Solutions, and I am continuing to develop my business and marketing plans. I want to explore the impacts and opportunities on sustainability efforts resulting from the current economic situation.

Activities: Sustainable System Solutions is a consulting firm that specializes in assisting small to medium sized towns and companies (both for profit and nonprofit), to develop their own customized sustainability action plans through education, back-casting and both formal and informal discussions.

Once the action plan has been established, my firm will assist as much as is necessary to ensure continued progress and success towards the goals set in their action plan. Sustainable System Solutions is also the sponsor of the Clean Energy Learning Center (CELC), a non-profit organization whose mission is to educate the public on all forms of clean and renewable energy via an interactive, hands-on learning experience. Besides the educational component, CELC's other two major goals are to find creative ways to make these energy systems affordable to everyone (via incentives, grants, tax breaks, special financing), as well as demonstrating both the need for Conservation as well as showing how it can easily be accomplished.

CELC will be a multi-acre learning center to be based in a central New England location. The center itself as well as all of its associated structures will eventually be fully powered solely by renewables. Onsite power generation will be one of the hallmarks of the center.

If you would like to become part of this initiative your input and assistance would be greatly appreciated.

Thank you!

Preston Alexander

617-821-4972

Website:

www.sustainableSystemSolutions.Com

Anderson, Sean

Interests: MassMutual is always looking for clean energy alternatives/solutions.

Arntzen, Pat

Website: www.efi.org

Arroyo, Jose-Luis

Interests: Green energy is important for our children's children and the environment.

Bair, Nancy

Interests: I am the Project Manager for GCC's Sustainable Practices in Construction grant from the MA WCTF. The grant supports our 46 partners sending employees to our newly developed RE/EE Certificate Program.

Website: www.gcc.mass.edu

Bamrungsuk, Tammy Phantika

Interests: I am an MBA student at Babson College who is passionate and is currently pursuing a career in clean energy.

Activities: Through my background helping companies monitor and control the pollution and with my experience working closely with investors, I found that this sector has unique challenges and tremendous opportunities in years to come.

Bard, Matt

Interests: Matt has been actively involved in the renewable energy field for the last two years. Interning for six months with the Massachusetts Technology Collaborative's -- Renewable Energy Trust and continuing his education in the renewables field through self-directed research and attending lectures. Matt's primary focus has been in the area of solar power and understanding the key technologies and regulatory policies that will help push this industry forward.

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Activities: As a member of the club last year Matt brought in a guest speaker to discuss the current state of the US renewables industry and helped chair a Clean Technology panel discussion at Babson's highly successful E3 conference. This year Matt has undertaken the role of VP of Sustainability for the BEEC as he tries to help Babson be at the forefront on sustainability issues.

Bauer, Silas

Interests: My interest is in energy policy centered around renewable energy growth programs including REPs (FITs), RPS, carbon cap and trade programs.

Activities: My masters thesis is on US Renewable Energy Payments (REPs), focusing on the successful history of the feed-in tariff in Europe and tracing the proposed REP bills in the US. My goal is to provide a record of the hurdles facing REPs thus far and provide helpful guidance for policy makers looking to implement REPs in the future.

Bay, Larry

Interests: As the director of an adult ed and job-training program, I'm exploring the possibilities of green jobs training for low income individuals.

Beck, Daryl

Interests: Interested in promoting a diversity of clean, sustainable, innovative energy alternatives in our community. Looking to see an increase in "green" job opportunities, awareness of transportation/energy options in planning for the future.

Activities: We run an automotive shop specializing in vegetable-oil fuel systems for diesel vehicles: conversion, service, and maintenance.

Website: www.greasewrench.com

Beck, Shelly

Activities: Our shop converts vehicles to run on waste vegetable oil, also providing service and maintenance for alternative-fuel vehicles.

Website: www.greasewrench.com

Benoit, Keith

Interests: There is now a great initiative to cut our nations energy consumption in half. This will not happen overnight; and it can't happen with only individuals making smart decisions. The change must come to the industrial sector as well. It is my goal to find a sector where energy and cost can be cut.

Activities: Being a student, it is the goal of our college to give students the knowledge to make an informed decision on the energy they use.

Berte, Sonia

Interests: Workforce Development

Activities: Working towards developing trainings and building skill-sets to include agricultural workers in the GOGreen Industries.

Website: www.partnersforcommunity.org

Blotnick, Joe

Interests: Work as volunteer or consultant helping to bring about a green jobs future in Western Mass especially in low income communities.

Activities: Leadership training and development, coaching, team building, online surveys and strategic planning for small and large businesses, non-profits and start-ups.

Website: www.teambuildingne.com

Blowers, John

Website: www.scapesbuilders.com

Boas, Kim

Interests: 20 plus years in energy efficiency with government and municipal utilities.

Bohn, Fred

Interests: WE are an existing landscape construction service, that is interested in adding renewable energy services into our business.

Activities: Our company has been creating environmentally enhancing landscapes for over 25 years.

Bradley Jr., Walter L.

Interests: I am extremely passionate about promoting ALL aspects of clean and sustainable living.

Activities: Although there are community/economic development organizations in my area, people from the lower income bracket and people of color are under represented (to put it nicely). I would like to do whatever it takes to fill that gap. There is a strong need in my community for the formation of a grassroots organization comprised of people for whom the need is greatest yet are often the most overlooked. I would like to start a CDC with the specific purpose of developing and promoting programs and projects to build and foster a green economy.

Bromberg, Heather

Interests: undergraduate degree in environmental science with a concentration in ecological design which incorporates clean energy. i would also like to attend the workshop so i have better ideas of whats available in the field.

Brooks, Maegan

website: www.wnec.edu/lawandbusiness

Brouker, Holly

Interests: I am a displaced Health/Physical Educator, M.ED. looking for transition opportunities in Green Building, renewable energy/energy efficiency programs. I would like to gain enough knowledge to use my diverse experience toward becoming a trainer/project manager or energy auditor. I am also considering a work/training situation or a inclusive certification program in one of the environmental concerns including: lead, asbestos, air quality, solar and wind energy.

I need expert guidance and am hoping to make some contacts at this conference that will lead me down the most sensible path toward my goal.

Brown, David

Interests: Dave is the AVP of Corporate Real Estate at MassMutual. Always interested in clean energy alternatives/solutions.

Activities: Seeking LEED certification

Bruce, Matthew

Interests: I am interested in preparing our workforce for the economic opportunities created by the growth of clean energy and the "green" economy.

Activities: My agency plans and implements green job training programs. We also attempt to foster connections between public investments in the workforce, and the job opportunities created by Boston's other green initiatives.

Website: <http://www.cityofboston.gov/jcs/>

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Buell, Karen

Activities: Refer to our website's press releases regarding "green initiatives." www.bankatpeoples.com/home/about.news
Website: www.bankatpeoples.com

Burton, Steph

Website: www.bpvs.com

Bushey, Peggy

Website: www.mmwec.org

Campbell, Marybeth

Activities: The Renewable Energy Trust seeks to maximize environmental and economic benefits for the Commonwealth's citizens by pioneering and promoting clean energy technologies and fostering the emergence of sustainable markets for electricity generated from renewable sources.

The Trust provides financial assistance to individuals and businesses for solar panels and wind turbines at their homes and facilities, works with communities to incorporate green design into schools, helps emerging clean energy businesses flourish in the Commonwealth, and much more.

Website: www.masstech.org

Cardinale, Mario

Interests: Business opportunities for revenue streams through green energy alternatives

Cargill, Pam

Interests: Representative of SolarWrights, a renewable energy firm that designs, installs, and maintains solar energy and wind systems.

Activities: SolarWrights is a socially and environmentally responsible business serving the Northeast with attractive, efficient renewable energy systems, including photovoltaic, solar thermal, and wind systems. Founder and president Bob Chew has been a solar designer and contractor since 1977, and is a nationally recognized expert in the fields of renewable energy and green building design and construction.

Making renewable energy affordable is our goal. SolarWrights' standardized systems offer our customers high quality installations without the high cost of "one-off" systems. SolarWrights has excellent factory direct relationships with key manufacturers.

Cassidy, Eric

Interests: I would love to get involved with any sort of renewable energy company or energy conservation company after graduating this December.

Activities: Successfully converted my truck to run on waste vegetable oil.

Cato, Chris

Website: youthbuildboston.org

Chasen, Andrea

Interests: Two main reasons:

1. I am a Climate Change Presenter through the Al Gore Climate Project and I want to stay current on solutions.
2. I teach business and sustainability at WNEC in the school of business.

Cirpan, Ali

Interests: Since January 2007, I have been working on fabrication and characterization of photovoltaic devices at the University of Massachusetts-Amherst

Website: http://www.pse.umass.edu/trussell/people_cirpan.html

Clemens, Bruce

Interests: I have been working in the clean energy field since my days at the EPA in the 1970s. A majority of my research deals with business and the environment. I teach courses on the topic and dream about it as well...

Activities: WNEC is a small (2,500 undergraduate, 1,500 graduate students), private, residential college. WNEC is unique among small schools in enjoying accredited schools in business, law and engineering; three cornerstones of sustainability. We offer a score of courses dealing with sustainability ranging from ecology to environmental law. We have a growing student Global Sustainability Club. We are developing a major in Sustainability Management. This year we embarked on our strategic planning process with a major focus on sustainability. The plan calls for the creation of a vice presidential-level position we style a "Dean of Environmental Standards" and a Council on Sustainability.

Cochran, John

Interests: retired transportation worker. I've gone thru several energy crises. My family (father, grandfather and uncles were involved-employed, financed and developed-oil, natural gas and electricity from the early 1900's.

I also had a friend who sold energy producing windmills on the 1970's.

Cohan, Sander

Interests: Analyst covering the effects of the growth of clean energy on crude and crude product markets such as gasoline, diesel, heating oil, and jet fuel. Specifically, I am interested in how the growth of clean energy will change global supply and demand patterns.

Activities: Since its inception in 1984, Energy Security Analysis (ESAI) has been dedicated to monitoring, analyzing, and synthesizing information about worldwide energy markets. Our interest in clean energy draws from its growing global presence. ESAI, through retainer and project-based interactions, advises its clients on the relationship between clean energy and traditional energy markets.

Comeau, Jeanne

Interests: I am considering a career shift into the clean energy field, and would like to see ways my non-profit org could shift to clean energy rehabs on homes we work on.

Activities: We perform energy efficiency modifications on home we repair/rehab, but have not done any specific clean energy related activities yet.

Connolly, Katie

Website: www.citytocityboston.org

Creighton, Dawn

Website: masslive.com

Davis, Paul

website: dietznadcompanyarchitects.com

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

Demara, Edwin

Interests: I am interested in career opportunities in clean / alternative energy.

DeVito, Vincent

Interests: Energy and Climate Change Attorney

Dickerman, Robert

Interests: As Dean of the School of Mathematics, Science, and Engineering Transfer of Springfield Technical Community College, the only technical community college in the state of Massachusetts, I am most interested in attending this conference on clean energy for the purpose of keeping up with state of the art information that may enhance our curriculum and benefit our students.

Activities: At Springfield Technical Community College we provide knowledge to, and prepare students for jobs in the clean energy industry.

Website: <http://www.stcc.edu>

DiTullio, Lynn

Interests: Program Manager for nation's oldest graduate level wind energy education and research program

Website: www.umass.edu/windenergy

Dover, Tony

Website: pvpc.org

Dowling, Alizabeth

Interests: As a graduate student pursuing a degree in environmental education, I am interested in learning more about the role of education in regards to clean energy.

Activities: Currently I am enrolled in courses at Antioch University New England with a focus on environmental education and sustainability.

Dray, Daniel

Activities: My agency is very interested in creating a green workforce for Cape Cod. We recently received \$400,000 from the state to implement a green jobs training program for the building trade industry. The program is focused on solar technologies and energy efficiency. Major program partners include Cape Cod Community College, both of our regional technical high schools, non-profits with a renewable energy mission, and building trade businesses.

Website: capecodedc.org

Eggleton, David

Interests: Applied Ecologies advocates and supports development of local economies, which need energy supplies they can count on.

Activities: Applied Ecologies advocates and supports development of local economies, which need energy supplies they can count on.

Website: www.appliedecologies.com

Emerson, Randy

Interests: I have a professional and personal interest in alternative energy with an emphasis on solar, wind, and water related technologies. We must break our dependence on foreign fuels and utilize our natural resources as a matter of economic and national security.

Activities: Developing a "Green Business Platform" offering Strategic Advisory, Corporate Finance, and Mergers & Acquisitions services.

Looking for "Green and Clean" business opportunities and partners in the Northeast.

Ewing, Ben

Interests: I hope to work in the field of clean energy after completion of my Master's Degree. My thesis work centers on the decision making surrounding green energy investment.

Fanning, Murray

Website:

hoppetool.com

Fasser, Craig

Interests: I am seeking information for careers and opportunities involving clean energy.

Feeley, Liz

Interests: My professional interest in clean energy is for the growth of my business. I would like to become more educated in clean energy and sustainable energy for a future branch of my business as a residential green building consultant.

Activities: I am currently running a home renovation and design business and I am very interested in branching out to green and clean energy-related building.

Website: www.interiorsbydesign.org

Feroli, Peter

Interests: APT provides energy efficiency program design and implementation services to clients throughout the country. We specialize in market based programs, working with a broad range of industries actors to further the availability, promotion and increased sale of energy efficient equipment. Our services include complete program design, management, field implementation, marketing and evaluation of Conservation and Load Management, Energy Efficiency, and Market Transformation programs.

APT's program delivery protocols which include trade ally enrollment, coordination and support, data collection and reporting have been developed over many years and are modified and enhanced on a regular basis.

Activities: The principals of APT have been designing, managing and implementing retail based market transformation through energy efficiency and ENERGY STAR programs for electric and gas utilities since 1989. These programs have covered every facet of residential ENERGY STAR products, including Compact Fluorescent Light bulbs (CFLs), Light Fixtures, Clothes Washers, Refrigerators, Dishwashers, Room Air Conditioners, Programmable Thermostats, Water Heaters, Windows, and a host of other energy efficient and ENERGY STAR qualified products. In addition, APT routinely conducts in-store promotions, turn-in events, press events, and staffs other community-based events to promote our client's programs.

APT specializes in promoting energy efficiency. We excel at creating market-driven shifts in behavior that result in the use of more energy efficient products. The programs we design, plan, implement and evaluate operate at all levels of the market - from the manufacturer of energy efficient products to the distribution and sale to consumers. Our clients include scores of utilities across the country. APT also provides custom designed training programs that motivate personnel, improve sales of ENERGY STAR qualified products, and encourage energy conservation.

APT currently provides energy efficiency services in 14 states and has offices located in Springfield-MA, Troy-NY, Chicago-IL and Portland-OR.

Website: www.appliedproactive.com

Clean Energy Connections

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Fierst, Eva

Interests: I am co-organizing an exhibition 'Greening of the Valley' at the University of Massachusetts which stresses the successful marriage of green building with good architecture in this area. It is crucial to be familiar with the resources in this area in order to have a meaningful exhibition. I am very much looking forward to the conference.

Forbes, Wendy

Interests: I work for Rural Development, Inc. created by the Franklin County Housing & Redevelopment Authority. For 10 years RDI has been developing and building increasingly green, energy efficient affordable housing for the residents of Franklin County. We are currently building the Wisdom Way Solar Village in Greenfield, a near zero net energy mixed-income village of 10 duplexes.
Website: ruraldevelopmentinc.org

Fradet, Irene

Interests: Presently a student in residential building design, seeking certification in Sustainable Design and Renewable Energy.
2008 BAC Certificate in Design Drafting and 2007 Arch.Tech.Cert.from STCC.

Franco, Karla

Interests: New Generation Energy (NGE) is a Boston-based non-profit that will provide investment options for consumers in the areas of renewable energy, conservation, and the environment. Our Renewable Energy Investment Notes (REIN) will allow individuals, businesses, and foundations to support the development of clean and renewable energy generating sources that use solar, wind, geothermal, biomass, or other types of energy as well as the development of projects to improve energy efficiency.

Activities: NGE seeks to connect with both investors and projects for the launch of its Regional REIN Program in 2009. By strategically aligning NGE with various organizations, we will gain extensive insight on renewable energy technologies, letting us diversify the projects we invest in. As a young organization we see many benefits of collaborating with other environmental organizations. In particular, we foresee the ability to increase our audience while collectively reducing CO2 emissions by increasing the number of alternative energy and energy efficiency projects created.

Website: <http://newgenerationenergy.org>

Fritz, Paul

Website: masslive.com

Gang, Jeff

Interests: As a student majoring in Environmental Studies and a human being with an interest in a sustainable, healthy and happy future for all, I am eager to see how I can get involved with the new energy future.

Gao, Brandy

Interests: solar energy and any other clean energy

Geysens, Stephan

Website: www.techniart.com

Godbout, Kevin

Interests: Interested in exploring career and education opportunities in the field of clean energy

Golden, Rebecca

Interests: I am interested in sustainable business.

I am also a teacher and being sustainability issues and solutions to the classroom.

Website: www.earthangelherbals.com

Gould, Caitlin

Interests: I am currently in my second year of my coursework towards a Master's degree in Public Policy & Administration, with an emphasis in Energy & Environmental Policy.

Grassfield, Kim

Interests: I would like to provide home energy auditing and energy improvement consulting. After auditing homes I'll use my training in architecture and 30 years of experience in home remodeling to make practical recommendations for cost-effective energy improvements to existing housing stock.

Activities: I am a remodeling contractor who often works on buildings whose building envelopes are far from energy efficient. I have used blown cellulose, foam, and interiorly installed foil-faced EPS panels to dramatically improve energy efficiency on homes whose heating costs and carbon footprints are sky high.

Gregory, Paul

Interests: Service provider with technology-based solution to drive efficiencies in buildings without capital expenditure. Savings are allocated to the purchase of renewable energy and data gathered serves as the foundation for corporate sustainability application, guiding landlords & tenants achieve a sustainable economy.

Activities:

- * Technology-based building efficiency
- * 25% reduction in energy use & carbon footprint
- * No capital outlay
- * Savings pay for Enterprise Sustainability Application:
 - 100% visibility into energy sources & uses
 - Carbon negative buildings with Renewable Energy Credits
 - Independent carbon measurement & verification
 - Efficiency cost/benefit analysis
 - Credit & incentive management: LEED, Energy Star, tax, utility

Grenier, Joan

Interests: We will be hosting a book table, including the Keynote speaker's book "Apollo's Fire"

Website: www.odysseybks.com

Gumpert, Peter

Interests: We manufacture "direct exchange" geothermal heating & cooling systems in Massachusetts. We hope to collaborate with other renewable/clean energy companies to create integrated solutions.

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

Activities: We manufactures "direct exchange" geothermal heating & cooling systems in Massachusetts.
Website: www.earthsource-energy.com

Gurovich, Andres

Interests: I'm interested in smart technologies and their effect on the future growth of the demand response market. I believe there are some opportunities and threats ahead for this market depending on the ability of the companies to cover larger territories of fragmented customers and manage larger power capacities. As big tech manufacturers see revenue opportunities in smart technologies distribution with large utilities I'm seeing that day when customers will become energy savvies and energy management outsourcing becomes a also a question of reaching communities.

Activities: The full time MBA program at Boston University has been offering clean technologies business modeling this year understanding the huge opportunity in this area as well as the need to involve people with other type of skills.

Hartley, Thomas

Interests: I am an electrical engineer with 9 years of professional experience in signal processing, embedded systems, atmospheric research, data communications, and small-scale photovoltaics. I am seeking new work opportunities and wish to contribute more directly to solutions to the growing energy crisis.

Activities: Smith College has a wonderful new co-generation plant. The new Ford Hall, while a massive net energy consumer, has some green features. (I am not representing Smith at this conference.)

Hayes, Susan

Interests: This is a career change for me.

Hazard, Nancy

Interests: I have been promoting sustainable energy for the past 30 years, as a builder, and then as the director of the Northeast Sustainable Energy Association (NESEA) and the Tour de Sol.

Activities: I am presently working on a sustainability campaign in my town called "Greening Greenfield." I recently completed an "energy audit" of our town using ICLEI's Cities for Climate Protection software.

I have made numerous presentations to teachers and the general public. I promote clean, sustainable energy along with energy efficiency and conservation, as a key strategy of any climate change mitigation plan.

Henderson, William

Interests: I am a professional sales manager that has spent more than 25 years in the information technology marketplace. I have also spent the last 17 months working with a gasification company that targeted municipal wastewater treatment facilities. It's gasification solution converts waste into renewable energy (thermal and/or electricity). I am interested in continuing my career in the renewable energy marketplace.

Herman, Jane

Interests: I am enrolled at GCC in their Renewable Energy program. Upon completion I will be looking for a job in the field

Houy, Chuck

Interests: Have long been determined to convert our world to clean and sustainable forms of energy, which in the long run are less costly economically and environmentally.

Howard, Theresa

Interests: My department is involved with workforce development in terms of placing students in jobs related to their majors and also providing information to students who are researching career fields and enrolling in related courses and programs. We need to know what jobs will be there for our graduates, what knowledge and skills they will need to be successful, and what courses and programs we need to develop in order to provide that knowledge and skills.

Activities: HCC has developed sustainable energy courses and participated in regional energy meetings/initiatives.

Website: www.hcc.mass.edu

Howe, Susannah

Interests: The Picker Engineering Program at Smith College places a strong emphasis on sustainability. Topics such as clean energy are woven throughout the engineering curriculum.

Activities: In the past six years, senior engineering students at Smith involved with the capstone Design Clinic course have collaborated with industry and government on a number of clean energy related design projects, including co-generation, sustainable fuels, and energy monitoring.

Website: www.smith.edu/engineering/designclinic

Ittleman, Leona

Website: www.stcc.edu

Jackson-Watts Molly

Interests: Economic development and policy

Activities: Planning and coordinating economic development strategies for green jobs and renewable energy in the Pioneer Valley region.

Website: www.pvpc.org

Johannessen, Kate

Interests:

I am an engineering student looking to go into clean and renewable energy fields.

Jones, Darren

Interests: As Co-op Power's Products and Services Manager, my intention is to reduce our dependence on foreign non-renewable energy sources, and make sure sustainable energy sources are available to all (urban/rural, homeowner/renter, etc.).

Activities: Co-op Power is committed to the advancement of affordable, community-owned, sustainable and renewable energy.

Website: www.cooppower.coop

Jones, Teresa

Website: gcc.mass.edu

Justice, Darlotte

Interests: To further educate myself, gather resources and make connections so I may more adequately serve my employer, the Massachusetts constituency, its municipalities, businesses and others interested in alternative energy sources, innovative solutions, conservation and environmental protection. To be an educated,

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informed and active participant in engaging Springfield, its surrounding communities and citizens in workforce development strategies and green jobs creation, which in turn will assist western Mass communities to grow, thrive, and hopefully retain the graduates from our area's colleges and universities.

Activities: To collect, comprehend and convey pertinent information for consideration by policy-makers at various levels in government, the citizenry and the business community.

Website: www.galecandaras.org

Kaczinski, Ed

Website: www.mmwec.org

Kaplan, Mimi

Interests: I am hoping to get more information about careers in the area of sustainable or green energy. I would also like to be able to help local schools learn how to become more energy-efficient and green.

Katcher, Andrew

Interests: Clean energy is the next innovative technology that will propel the world economy and is essential to maintaining a healthy environment.

Kaufman, Ezra

Interests: As a full time student at UMass Amherst, my academic and career goals have evolved to gravitate primarily towards sustainability. This conference seems to be a culmination of such ideas. I am very excited to be able to attend.

Keezer, William

Interests: First engineering work in geothermal energy was 25 years ago, when an installed water-source geothermal heat pump failed to function as claimed. Completely re-engineered the ductwork and waterflow systems in order to perform to specification. Ever since then I have been keeping myself abreast in the evolution of geothermal heat pumps. Most recent client for my services was EarthSource Energy Solutions, Inc. where I consulted as a Principal Engineer and conceptual advisor. Activities: Consultant in conceptual engineering and engineering management to a geothermal heat pump manufacturer. Consultant to other manufacturers in green energy as the opportunities arise.

Kerver, Richard

Interests: Tataasset Solar is a professional association of solar designers, engineers and installers serving the Worcester and central New England area.

Activities: Solar photovoltaic design and installation

Kilfoyle, Christopher

Website: www.bpvs.com

Kimball, Pamela

Interests: Interested in Green Building field and helping to manifest Net-Zero energy, sustainable, affordable housing in Massachusetts.

Activities: Our organization protects natural resources and creates conservation restrictions on parcels of land. We are figuring out the correct way to handle the allowance of renewable energy on otherwise protected parcels of land without degrading the natural resources of the land that we are protecting since some renewable energy projects need permanent structures build on the land.

Klisiewicz, Stephen

Interests: The power industry is changing and the need for a distributed generation of electric power is here. I want to be a part of the next generation of power distribution.

Kocsmiersky, Mike

Website: <http://www.solarwrights.com/solarMA.php>

Konstan, Michael

Interests: Career opportunities & small hydro electric

Koumjian, Alec

Interests:

I'm currently pursuing an undergraduate degree in physics and computer science. I hope to pursue a career in wind energy engineering.

La Cour, Sarah

Website: www.cowls.com

LaDuc, Linda

Interests: Opportunities in Technical Communication and Technical Sales

Activities: Teaching students about business/technical communication demands of new industries.

Laidlaw, Scott

Interests:

Social justice concerns; sustainable design and affordable housing

Laine, Emily

interest: Clean energy should include agriculture. Food is human's energy. This is the first place I would like to see go back to being clean and green.

activities: Earthfoods is a student run not for profit restaurant. We have students growing produce for us to use on an organic farm close by.

business is ecologically conscious, drawing on initiatives from each member of our collective. Feel free to contact me or the collective with any questions

Lapseritis, Brian

Interests: I have a varied background in the energy industry. I began my career at government agencies (EPA and DOE's Energy Star Program), and went on to work at NGOs (Alliance to Save Energy) and a private consulting firm (Pace Global Energy Services). This summer, I was tasked by a construction management company to develop a strategic marketing plan for their green building initiative. These diverse experiences have allowed me to build relationships with multiple communities in the energy and environmental industries across the country.

Activities: The Babson Energy and Environmental Club (BEEC) seeks to foster innovation by addressing the following three points:

Curriculum Integration

Incorporate BEEC as part of F.W. Olin School of Management's transition towards recognizing the triple bottom line, both through curriculum and integrated experiential learning consulting projects.

Career Development

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

Help Babson graduates build careers in the energy and environmental sector. Build a green network for Babson Business students.

Campus Greening

Propose and develop a powerful campus greening initiative to be unveiled at our annual energy expo on March 26, 2009.

Website: www.babsonenergy.com

Laufer, Prakash

Interests: I am interested helping to develop a green economy in Turners Falls MA through developing green jobs and entrepreneurial training.

Website: www.thebrickhouseinc.org

Lawrence, Richard

Interests:

I coordinate the clean energy training program at Cape Cod Community College. I am interested in the job opportunities in this growing field and the skills/training that are required for them.

Activities:

Cape Cod Community College provides academic and non-credit training and education in various clean energy fields. We have certificates in photovoltaic, solar thermal, and small wind technologies and additional courses in efficiency and green building technologies.

Lee, Todd

Interests: The City of Boston recently launched a green jobs initiative to fund pilot programs in the field. Especially with the Governor's new initiative to grow the state's emerging green economy, the broad area of green jobs is an important part of our labor market and economic development. We are very interested in discovering what aspects of this green economy are providing jobs, which ones are in need of help from the public workforce development system, and where partnerships can be forged.

Activities: As mentioned above, recently put out a request for proposals for green jobs projects that is in the process of final review and selection of funded projects.

Website: <http://www.cityofboston.gov/jcs/>

Lessard, Tom

Interests: Business opportunities for revenue streams through green energy alternatives

Levick, Emerald

Interests: I would like to embark on a career in clean energy, specifically promoting its accessibility to the communities I care about. I might also continue my education but am not sure whether to pursue a degree in sustainable management or architecture.

Lewin, Chuck

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Website: <http://newgenerationenergy.org>

Lilienthal, Tim

Interests: I'm interested in policy change that could help create more green-collar work opportunities

Activities: We do a great deal of workforce development, especially for youth. I'm interested in exploring opportunities for green-collar job training as part of this.

Lipke, Paul

Interests: Helping healthcare organizations understand public health impacts and treatment costs of conventional energy purchases, and switch to clean energy.

Livingston, Amy

Interests: I am interested in learning about how businesses and organizations in the region are addressing energy and sustainability issues, what opportunities exist to resolve these issues, and how industry leaders characterize the challenges and opportunities our region faces with regards to energy over the short- and long-term.

Activities: Sustainable Design Associates is a Northampton-based landscape design firm that uses whole-systems approach to design. We believe that clients' goals for their property can be met with an aesthetically pleasing and sustainable design that functions well within its surroundings, whether that be in an urban or rural landscape. We accept residential, commercial, and public design projects.

Lydgate, Kalila

Interests: I am interested in making connections and broadening my understanding of clean energy so that I can be an effective advocate for creating an inclusive green economy that creates pathways out of poverty for low income communities, communities of color and people with barriers to employment

Activities: MA Green Jobs Coalition is a statewide alliance focused on creating pathways out of poverty. Clean Energy and Energy Efficiency are two of the most promising job creators in the green sector. I live in the Southcoast of MA and here I have been working with a Weatherization Taskforce to create a training program, which just started last week.

Macallister, Mark

Interests: Clean energy is a forward thinking way of making the world go round. It may boost my bottom line which will allow more time for me to research and understand newer and more efficient ways of keeping the world clean.

Activities: Macallister Building, LLC. uses high energy windows, spray-in foam insulation amongst other earth friendly materials and installation techniques.

Website: MacallisterBuilding.com

MacBlane, Andrew

Interests: As an environmental educator, I plan on educating youth and adult of the importance of investing in clean energy in relation to the living on a healthy planet. I am currently enrolled in a course at Antioch University New England, Educating For Sustainability, and am also interested in educating large corporations of the importance of sustainable practices, including clean energy.

Activities: I am currently working on an internship with the company Life is Good to bring sustainability to the forefront of their mission and practice as a business by educating internally to the employees and externally to their stakeholders.

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MacLeod, Peggy

Interests: 22 year involvement in green homes and clean energy. Started the CT Energy Coop that enrolled 3500 clean energy supporters.

Activities: Renewable Energy and Green Building education and certification programs; energy audits, K-12 environmental education, waste management and recycling.

Website: www.cetonline.org

Macnab, Sean

Interests: I am a Sophomore in the Electrical Shop at Franklin Technical School in Turners Falls, and I am interested in the clean energy field as a possible career path.

MacNab-Millar, Sheila

Interests: Our family is "green" and interested in how to become greener. Recently our son, Sean MacNab an Electrical Shop Sophomore at Franklin County Technical School in Turners Falls, has shown interest in exploring the clean energy field as a possible career path.

Majercak, John

Website: www.cetonline.org

Malik, Linda

Interests: My focus is local and regional sustainability. I am currently working on two projects which covers business, municipal and regional sectors. Along with reducing GHG emissions, I am passionate about conservation as a first measure, with TRULY renewable energy (wind, solar, geothermal, tidal) as the primary focus for power plants. Citizens must be educated fully to demand this push to enforce ongoing policy.

Marks, Adam

Interests: Promote clean energy, energy efficiency, energy conservation. My product manager responsibilities include development of software's features & functionality to help consumers and businesses better understand their current energy use and opportunities to save energy and money via conservation, alternative energy, etc.

Activities: Aclara Software and its sister companies in the Aclara Technology group provide hardware and software for energy efficiency, advanced metering, and "Smart Grid" applications. North American energy utilities, including Massachusetts companies, utilize Aclara software to help customers lower bills, conserve energy, reduce carbon footprint, and evaluate alternative energy sources.

Website: www.aclarasoft.com

Marsden, Wendy

Interests: I am part of a group that is developing a biomass district energy system to provide combined heat and power to the Town of Greenfield, MA using sustainably grown local wood chips.

Activities: Greenfield District Energy is being created to change the way we heat our homes. Using local, sustainable wood chips we plan to heat water in a central boiler and pipe it through the town into people's basements the same way sewer is. It will reduce greenhouse gases, provide us with energy security, promote sustainable forestry, provide jobs for our local economy and reduce our heating costs!

Marshall, David

Interests: Seeing career change into clean energy. Have some construction/carpentry experience and have understanding of PV technology. Open to possibilities!

Website: davidmarshall.us

Martin, Christopher

Interests: The buildings we use contribute more than half of the greenhouse gasses we produce in this country. Virtually every building can be modified to use energy more efficiently, usually at great savings to the occupants.

At SunHammer, we concentrate on energy conservation strategies and renewable energy installations in residential buildings in Franklin Co. We bring exacting technical knowledge and years of experience in the details of energy efficiency to new construction and remodeling projects.

Activities: We provide design and construction services for energy conservation in residential buildings, construction oversight and training, energy modeling and design evaluation, green materials research and sourcing, and materials and systems integration.

Martinique, Laura

Interests:

I was appalled by the lack of attention climate change received during the recent campaign. A clean energy policy in the interest of closing the loop must be a priority, conservation should be rewarded, and large, gluttonous nations like ours need to lead in this matter. I am interested to attend this sort of conference, my first, to hear what has been going on.

McCarthy, Kevin

Activities: The UK Trade & Investment CleanTech team supports CleanTech companies in the US seeking to locate in the UK, as well as UK companies trading internationally in the US.

Website: k.mccarthy@fco.gov.uk

McDonald, Doug

Interests: I have worked on sustainable transportation and I am currently focusing on the link between clean, renewable energy and transportation options.

McDonough, Amy

Activities: Tighe & Bond provides comprehensive engineering and consulting services for a sustainable future, conserving energy and water, minimizing greenhouse gas emissions and waste, and enhancing environmental quality. Our expert, multidisciplinary professionals, comprised of engineers, scientists and planners deliver innovative, cost-effective energy strategies to a wide variety of clients. Tighe & Bond energy staff includes LEED Accredited Professionals, Certified Cogeneration Professionals, Certified Power Quality Professionals, Registered Electrical Engineers and Registered Control Systems Engineers. Our energy services include: load and demand management, sustainability, energy and renewable resources system design and permitting, cogeneration, facility operations for industrial sites, and energy conservation for water and wastewater treatment facilities. In addition to energy conservation services, Tighe & Bond has worked with a variety of clients for generation of energy from alternative fuel sources, including: biomass, landfill gas, sewage sludge digester gas, and small hydropower facilities.

Website: www.tighebond.com

McIlwain, Robert

Website:

www.avenuesofpeace.net

November 22, 2008
Mass Mutual Center, Springfield, Massachusetts

McMann, Heather

Interests: Groundwork Lawrence, Inc. is a locally-based 501(c) 3 non-profit organization working to create sustainable environmental change through community-based partnerships. Groundwork's mission and operations are premised on the understanding that environmental conditions are inextricably linked to the economic and social health of a neighborhood. As a consequence, Groundwork is committed to "changing places and changing lives" through on-the-ground projects that help to transform local communities. To accomplish this, Groundwork leads and supports a variety of partnership-driven efforts that bring together the public, private and non-profit sectors to solve complex environmental problems and sustain a long-term vision for neighborhood change and renewal.

Activities: Our projects and programs are designed to:

- Increase Opportunities for Physical Activity through the development of parks, trails and recreational facilities that are safe, welcoming and accessible to all;
- Increase Access to Healthy Food by creating a citywide network of community gardens, supporting the Lawrence Downtown Farmer's Market and expanding opportunities for community-supported agriculture;
- Improve the Quality of Our Air, Water and Land through brownfield redevelopment, volunteer cleanups, tree planting, water quality monitoring, and integration of low-impact development techniques;
- Support Biodiversity by implementing habitat enhancement and restoration projects;
- Reduce Energy Consumption through the development of pedestrian-friendly neighborhoods and the use of locally-sourced and recycled materials for project construction.

Website: www.groundworklawrence.org

Mell, James

Interest: Zeacot, Solar electricity/Heat, electric vehicles

Activity: Installation & repair of energy-star rated heating systems. Electric DSM and small scale renewable program on residences of Hampden County

Meserve, Elizabeth

Interests: I am currently working towards my masters of science in environmental studies with a focus in environmental education. I believe that we need more clean energy, now!

Meyer, Karl

Interests: I have been interested in energy consumption issues for my entire adult life. I lived for 16 years w/o an automobile, and now leave my car in the driveway most days of the week. I bicycle. I'm an environmental writer and communications professional. I've published pieces on the nuclear industry and climate change.

Miller Catherine

Interests: Sustainability - planning, education, advocacy

Website: pvpc.org

Millington Patricia

Interests: I have been looking for a new job and recently received the following job description:

"We have recently received a job from one of our clients that could be a potential fit for your background."

JOB DESCRIPTION:

IMMEDIATE NEED & ACTIVELY SEEKING a DIRECTOR to lead a Project Development Group! You will lead Photovoltaic (PV) project identification, real estate, transmission interconnection, permitting, pre-construction design and other development activities. You will lead project-specific marketing and public outreach activities and take projects from identification to financial close. You must have a minimum of 10 years work experience, preferable with prior infrastructure development. Strong project management skills and project finance experience is preferred. You must have the ability to lead diverse teams and drive those teams towards financial closing. You must have a Graduate degree, with a degree in a science or management or energy related field. A comprehensive benefits package and so much more await the right candidate.

Position type: Perm

Position location: Western, CA

Potential pay up to: XXX K \$ /Yr

This would be the job of my dreams if only it were in the Pioneer Valley. I would also expand the description to include alternative energy solutions beyond solar. I'm still looking and hoping for an opportunity in MA, and look forward to seeing what this Conference turns up. (resume available)

Miss, Steve

Interests:

We believe that improved green technology in the automotive industry will allow for environmental and economic sustainability, and we're excited to be working with individuals from across the country who are developing and implementing that technology. We feel it's important to make advancements in our industry available to and affordable for our customers at a local level. Our training allows us to help drivers improve the efficiency of and extend the life of their automobiles. We feel it is necessary for independently owned repair facilities to have the skills and knowledge to enact local change within their own communities, as the automotive industry is a major consumer of non-renewable resources.

Activities:

Crystal Car Care's owner and head technician trained with the leading hybrid vehicle experts in the country to expand our family owned auto repair business to also become the Valley's first independently owned hybrid repair facility. We are the only independent repair garage in New England installing Plug-in conversion kits on hybrid vehicles. We are also working towards installing plug-in conversion kits on (non-hybrid) economy cars by 2009. For those drivers who can't afford hybrids or conversions, we work towards making their current vehicles as clean and efficient as possible.

Website:

www.crystalcarcare.com

Morf, David

Interests: Clean energy represents a huge national need to expedite transformations across changes in business, regulatory, technological, and working environments. As a transition and growth consultant, I know we all can add value through strategic outreach if we think larger, make connections, look at issues of re-use and scale, and address business and workplace complexity, context, and pattern as we seek to build and leverage sustainable innovation, collaboration, and growth.

Activities: The Center for Semantic Excellence (CSE) is a new high-tech non-profit in Waltham aimed at Wicked Problems (multi-faceted issues with individual facet-based pushback against change-even change widely agreed as productive). Context can be an entire domain, such as US healthcare (a focus of actionable interest), or the energy-climate change nexus (a topic for economic-demographic analysis), or structures specific to a given outfit, institution, or scenario. Stuff scales. We offer research and IP in the areas of new thinking for multiply-nested ontologies, persistent agents and predictive alerts, and analytics for assessing personal intention and engagement and multi-regional economic-demographic impacts and forecasts. We're also pursuing very new work in context-aware semantic technologies and related

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organizational-social thinking and methodologies. These practical research aims have direct applicability to the Wicked Problem containing interrelated issues across energy, climate, health, education, and widely-shared multi-regional economic growth.

Website: www.semanticexcellence.org

Morgan, Sarah

Interests:

As a soon to be college graduate, I am very interested in connecting with a clean energy career!

Murdoch, Karen

Interests: Wolf Engineering provides full service engineering for the development, manufacture and test of prototype components for the aerospace, automotive and defense industries.

Activities: Wolf Engineering provides unique solutions to highly technical problems. We specialize in the development of prototype components for fluid, thermal, and chemical reaction systems. We are currently working on fuel cell applications.

Website: <http://www.wolf-engineering.com/>

Napolitano, Jeffrey

Interests:

I volunteer with ECHO for Sustainable Development.

Newlin, Paul

Interests: I hope to teach and consult about environmental and energy policy and history.

O'Connor, Michael

Interests: As an attorney and an educator, I am interested in creating a web based environment to explore the legal, zoning, land use and tax challenges for homeowners and small businesses as we move towards an alternative energy future.

Activities: LegalWORKS Alternative Energy Network, through a soon to be launched portal at www.legalworks.net, is interested in creating a Web 2.0 based environment to explore the legal, zoning, land use and tax challenges for homeowners and small businesses as we move towards an alternative energy future.

As a resource of resources for legal, tax, and legislative issues facing the small-scale alternative energy community, legalworks.net will look to aggregate, authenticate, and comment on all online resources that would help the homeowner, small business owner and landowner navigate the applicable federal, state, and local issues that should be considered prior to their project.

Website: www.legalworks.net

O'Halloran, Steven

Interests: I'm interested in regional and national policy formation. Although my current areas of study are in sustainable energy, I would like to incorporate farming, resource development and water issues in policy discussions.

As a backup career I'm looking to become an energy auditor.

Activities: I'm currently enrolled in the renewable energy program at Greenfield Community College.

Page, Alan

Interests: A carbon negative economy is urgently needed to maintain the present habitable state of the earth biosphere. Clean energy can be part of this carbon negative economy if we choose to make it so.

Activities: StepItUpBelchertown has formed a working group to review, test and implement carbon negative solutions.

Pantus, Lilya

Activities: Lutheran Social Services assists refugees that have recently moved to the United States in finding employment. Our organization is interested in emerging job sectors and is exploring opportunities to train refugee clients to be employed in green jobs.

Parker, Eric

Website: www.pamboston.com

Interest: We offer clean, renewable publicly traded investments, such as mutual funds, stocks and ETFs

Activities: We follow over 500 publically traded stocks in this field, along with all of the mutual funds and ETF that are available to invest in

Paulson, Beth

Website: cetonline.org

Perrault, Leonard

Interests: We are seeking new avenues of growth and potential for the possibility of adding to our products.

Phillips, Jon

Interests: To start up my own clean energy company as an entrepreneurial enterprise or connect with a succesful start-up or established company that I can held promote and grow. My skills would best be utilized in a marketing and sales capacity to sell the company's vision, programs, and products.

Prum, Katherine

Interests: I develop corporate recruiting relationships, and I am extending my outreach into the clean energy sector to support Brandeis' Global Green MBA program.

Activities: The Brandeis International Business School recently launched the "Global Green MBA," a new program designed to incorporate economic and social development, corporate governance, and environmental policy into business studies.

Raczkowski, Dariusz

Interests: My career revolves around life cycle and asset managemet. I am ensuring clients are using the most effective and efficient means to operate their businesses and facilities. My hope is that we can identify local I-91 corridor organizations providing sustainable services and products that can be combined and marketed to provide local clients with a clean technolgoey one-stop service center.

Activities: We are pursuing the development of a regional office focusing on sustainable initiatives tied to rebates/incentives for facilities managers and business owners. We are currently evaluating the region for strategic office locations and any incentives to locate our operations in Western MA and CT.

Website: www.bondbrothers.com

Randall, Diane

Website: www.msbdc.org/wmass

Robinson, Kevin

Interests: Home renovations using energy efficient sources. Entrepreneurial interest in clean energy education and distribution.

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Activities: Installed geothermal heating and cooling system.

Rondeau, Patrick

Interests: MBA student with 12 years of professional experience in business development, marketing and technology who is looking to help Western MA renewable energy firms grow by reaching more residential and commercial customers.

Sachs, Martin

Interests: The MIT-Fraunhofer Center for Sustainable Energy Systems (CSE) is dedicated to serving the research needs of the sustainable energy industry by helping established industry players and newcomers alike move clean energy technologies from the laboratory to the production line.

Activities: The CSE performs contract research for a wide variety of clients in a number of areas related to sustainable energy, including solar module testing and innovation, building efficiency, and energy device prototyping. As a member of Germany's renowned Fraunhofer Society, the Center is part of a larger network of worldwide institutes and alliances researching cutting-edge solutions to today's energy issues.

Website: www.fraunhofer-cse.org

Sawyer, William

Interests: Alternative energy from renewable resources, Green chemistry, Green engineering

Schoenberg, Matthew

Interests: I am interested in finding a job/internship with a firm that seeks to develop, acquire funding, and/or invest in innovative clean energy technologies.

Activities: I am an undergraduate senior finance major currently performing research and discovering avenues through which clean energy projects can acquire funding.

Schofield, Clay

Interests: Promoting the use of biofuels and other renewable energy sources. Exploring potential related economic development opportunities for Cape Cod.

Activities: Development of the Cape Cod Renewable Fuels Partnership and including energy requirements in the current draft of the Regional Policy Plan.

Website: www.gocapecod.org

Schwarzer, Perry

Interests: GCC RE/EE Student

Schwenger, Charlie

Interests: My company; XCO² has a purpose to involve companies in a business model that supports clean and efficient energy while maintaining effective standards. By creating innovative ideas and working with major automotive and distribution companies, we hope to develop relationships through individuals, communities, and businesses.

Activities: My company; XCO² is a specialty engine manufacturer concentrating in an energy friendly industry. XCO² specializes in the engineering, manufacturing, and distribution of biodiesel and hybrid systems on a global scale. XCO² provides an alternative energy source to major distribution companies.

Severin, Stephen

Interests:

I have had an interest in the clean energy industry for over 30 years. I attended a passive solar design program in CO in 1983, 1984 but the program was cancelled before I could complete it. I would like to resume that goal now and feel this conference will offer significant insight into that quest.

Activities:

Currently I am not directly practicing as a clean energy business. I am a landscape design/sales consultant. I also provide a wide array of landscape related services (independently, part time) and adhere to organic methods. In my design work I try to incorporate solar, and permaculture (edible landscapes) concepts whenever applicable.

Smith, Wes

Website: www.scapesbuilders.com

Stanberry, Matthew

Interests:

I am a management consultant in the clean energy field. My focus is helping clients analyze and respond to rapid developments in the field based on my expertise in renewable energy technologies and policy, climate change policy and impacts, and risk assessment.

Activities:

Navigant Consulting is a full service management consulting firm with 2,000+ employees. Its renewable energy practice contains ~40 staff who assist private and public sector clients from around the world make decisions in this rapidly evolving field.

Stanton, William

Interests: Interested in volunteering to help Clean Energy Startups - applying 28 years of senior management business experience ranging from startups, thru IPO, to Fortune 500.

Activities: Volunteering to help with business planning, negotiating, and building top performing management teams.

Steele, Brad

Website: www.efi.org

Stein, Richard

Interests: Am coordinator OF UMass Teach-In on Global Warming, 2/5/09

Producer of 6 YouTube videos on energy

Member of Belchertown Step-It-Up Group on Sustainability

Writing book on Energy & Environment

Activities: UMass has a variety of energy and environmentally related education and research programs

Stokoe, Martin

Interests:

Seek to gain more insight into the technology adoption and market development challenges within this exciting industry.

Activities:

With over fifteen years experience successfully promoting the technology adoption of communications and networking products, my goal is to assist clean energy companies in overcoming similar challenges related to technology adoption and putting in place the right strategy to ensure a successful market development program.

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Suárez, Eduardo

Interests:

The revolutionary growth of the “Green Economy” in the last several decades has created a large gap between people who have access to the technology involved and those who do not, between people who have the technical skills to sustain themselves and their communities and those who do not. ECHO not only intends to close this gap, but believes that the success of the green movement depends upon doing so.

Activities:

ECHO’s overarching mission is to build community assets in a mutually beneficial relationship that is community driven for sustainable development, addressing socio-economic and environmental justice issues. ECHO intends to use our success as a template for challenged communities to adopt sustainable practices to generate workforce and entrepreneurship development. We recognize that not only are environmentally friendly businesses and policies the responsible paths for our future, but they are also the inevitable paradigm of our current and future generation of energy policy, both nationally and internationally.

ECHO for Sustainable Development is working to build community assets by organizing cross-sectors in different communities of the Commonwealth around renewable energy, green jobs, and building strategic alliances.

We are dedicated to:

- Generate a “green jobs culture” and industry in Western Massachusetts.
- Build “Green Economy” capacity of our local workforce and industry through:
 - o Apprenticeship programs,
 - o Encourage entrepreneurship, and
 - o Building community-worker owned enterprises.
- Create a leadership development program based on mutual learning practices with labor, community-based organizations, learning institutions, and business, to encourage a responsible, modern, participatory community process for sustainable development.

Website:

<http://www.echosd.org>

Sullivan, Sara

Interests: I am currently employed as an analytics technician at sunethanol, a small Amherst based R&D biofuel company. I believe strongly in building on the concepts of clean technology and energy conservation. I would like to learn more about other clean energy and green companies in the Valley.

Tambe, Gautam

Interests:

- Greening coordinator for Babson College's Net Impact. Have effected significant changes in that role.

- Active member of the Babson Energy and Environmental Club. Working on various cleantech projects like solar panel installation, composting, campus sustainability, offshore wind turbines among others.

Tanner, Lori

Interests: Economic development issues

Activities: Planning, education

Website: pvpc.org

Tautznik, Michael

Interests: Public procurement opportunities. Website: www.easthampton.org

Tino, Nicholas

Interests: I am currently a Undergraduate Mechanical Engineer at the University of Massachusetts Amherst. I will be graduating in the Spring and am interested in working in the wind, solar, or hydrogen fuel cell fields of engineering. I am currently in a Wind Energy course and will be in a Solar Energy course in the Spring semester. I feel as though developing green technology is going to be the most important aspect of science for years to come and I desire to be a part of that.

Activities: The University of Massachusetts Amherst is involved in green technology through the Renewable Energy Research Lab (RERL) and has been involved with wind turbine research and prototyping for many years.

Tirrell, Isaac

Interests:

former grad student in a transition period interested in renewable sustainable energy, sustainable agriculture, and vertical farming. also have a keen interest in the utilization of hemp for clean energy source. planning to go to grad school for renewable and sustainable energy and economics.

Titcomb, Jeffery

Interests: sales, marketing, education, administration, project management

Activities: Currently working in sales and marketing for a solar electric and solar hot water installation company

Tom, Cody

Interests: LocalGreenie.org is supportive of green and sustainable business practices, including clean energy.

Activities: LocalGreenie.org is a directory of socially responsible businesses and non-profits. The site allows businesses to share their practices, including alternative energy, efficiency, and reduction, with consumers.

Website: www.localgreenie.org

Tuason Mata, Camille

Interests: I am interested in permaculture for urban planning and local food systems. Within this, I have corresponding interests in community-based economies and urban design.

Activities: The ECOPlanning Institute engages in community-based planning processes that emphasizes ecology planning, specifically green waste systems, organic agriculture, and permaculture urban designs.

Website: <http://www.ecoplanninginstitute.vpweb.com>

Union, Larry

Interests: My professional interest in clean energy is to advance the cause of sustainability as quickly as possible!

Activities: Northeast Biodiesel and Co-op Power are involved in sustainable biofuels production, energy conservation and efficiency and development of renewable energy generation

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Vega, Carlos

Interests: I am particularly interested in developing and utilizing clean energy/green development in urban areas. How can we recycle in buildings with 8 or more families? How can we use solar panels or wind turbines to help low-income families?

Activities: Nueva Esperanza operates two youth programs. El Arco Iris, works with youth 9-15 years of age. In the past they worked at documenting sites in their neighborhood that were contaminated. They are looking into developing a recycling program in a 123 unit housing project.

Our other program is YouthBuild Holyoke. We work with youth who have dropped out of school, helping them study for their GED and learn work skills. We have been focused on construction and community service projects and are looking at "green" development as a way to provide additional opportunities for our youth.

Website: nuevaesperanzacdc.org

Veryser, Stephen

Interests: I am interested in applying my management and engineering expertise to the green technology sector. I am also interested in the carbon sequestration advantages of organic farming and exploring the renewable energy business model presented by the organic farming model.

Activities: I am a graduate student in a management degree program. In my current field research, I am acting as the principal investigator in a renewable energy feasibility study with an organic dairy farm in Vernon, VT. We are exploring the options of biomass, solar, wind and biodigester power.

Vogel, Mary

Interests: As a nonprofit representing the building trades and contractors, we are interested in green job opportunities for our members.

Activities: We address workforce development opportunities in construction. The implementation of Clean energy technologies will provide jobs in our industry.

Von Goeler, Ruth

Website: greennorthampton.org

Wallace, Ryan

Interests: Interested in transition strategies for clean energy.

Activities: Currently pursuing Master's degree in Regional Planning at UMASS. This topic is related to my thesis.

Wang, Yiting

Interests: solar power (esp. concentrated solar power)

Webster, Alan

Interests: I am a Licensed Electrician in both Massachusetts and Connecticut with over 30 years experience in residential, commercial, industrial, and institutional electrical installations. I am interested in either starting my own business or finding gainful employment to include Solar and Wind Energy Power Sources

Weil, Ben

Interests: Doctoral candidate in environmental studies researching the history of renewable energy policies. Currently developing mini-hydro start-up.

White, Kaiba

Interests: I hope to work on either clean energy policy or implementation upon graduating in May 2009. I have some policy experience working with nonprofits, but feel there is a lot to be done in the private sector as well.

Wilson, Bob

Interests: Activities: Nat'l accredited training program specializing in photo voltaic and residential wind power installations

Wright, Michael

Activities: University research in fuel cells, photovoltaics, hydrogen, and other chemistry-enabled clean energy paths. Also innovation, research parks, and economic development. MassCREST is a multidisciplinary research institute at the University of Massachusetts Amherst dedicated to clean energy through chemistry. Its Center for Fueling the Future, an NSF-supported Center for Chemical Innovation, coordinates research on proton transport for fuel cells and related chemistry-enabled clean energy research.

Website: www.chem.umass.edu/masscrest/

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Karen Hayes	UMass Amherst Research Liaison and Development	Planning Committee
Terri Howard	Holyoke Community College	Planning Committee
Michelle Wonsey	UMass Amherst Research Liaison and Development	Planning Committee
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www.umass.edu/green